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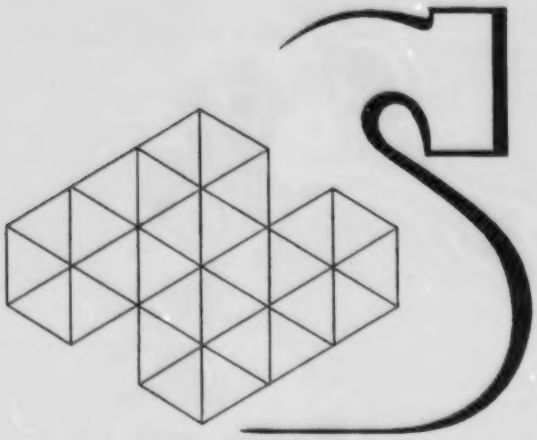

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Army Combat Clothing & Equipment Survey System (ACCESS) Part 3: Implementation Trials and Stakeholder Interviews

PWGSC Contract No. W7711-7-7286/001-SRV
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Army Combat Clothing & Equipment Survey System (ACCESS)

Part 3:

Implementation Trials and Stakeholder Interviews

by

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REFERENCES

A SHEK, Y., ANGEL, H.A. & DONATI, A.L.M. (1996). (1996) *Human Factors Support to Op Harmony: A Field Survey of Military Clothing and Equipment*. DCIEM Report No. 1996-R-15.

B WEBB, R.D.G., TACK, D.W., GAUGHAN, P.M., and STROUD, M. (1995) Combat Soldier 1995 User Trial Final Report. Humansystems Incorporated Contractor Report, *Ministry of Defence, United Kingdom. DRA/CHS/PHYS/CR95/007*

C TACK, D.W. & GAUGHAN, P.M. (1997). *Army Combat Clothing & Equipment Survey System Part 1: Survey Design and Distribution Methods.* Humansystems Incorporated Contractor Report. DCIEM contract W7711-93-7198-09/01-SRV.

D TACK, D.W. & GAUGHAN, P.M. (1997). *Army Combat Clothing & Equipment Survey System Part 2: Investigation of Focus Groups in the Survey System.* Humansystems Incorporated Contractor Report. DCIEM contract W7711-6-7302/001-SRV.

E Chamberland, Andre., Carrier, Robert., Forest, Francis., & Hachez, Genevieve. (1998). *1997 Anthropometric Survey of the Land Forces: Final Report*. Contractor Report on PWGSC Contract W7711-6-7350, March 1998. 98-CR-15.

F Gordon, C.C., Churchill, T., Clauser, C.E., Bradtmiller, B., McConville, J.T., Tebbetts, I., and Walker, R.A. (1989*). 1988 Anthropometric Survey of U.S. Army Personnel: Methods and Summary Statistics* (Tech. Report Natick/TR-89/044). Natick, MA: U.S. Army Natick Research, Development and Engineering Center.

1.0 INTRODUCTION

There have been a number of past projects that have endeavored to elicit user feedback on the suitability of in-service clothing and equipment.

- In 1993, a pen-and-paper questionnaire was developed by DCIEM and administered to 480 United Nations Operation Harmony personnel (ref A).
- In 1994, the British Army developed a questionnaire survey system to acquire User feedback on the design of 26 prototype Combat Soldier 1995 garments from 2000 service personnel from 12 bases around the world over the course of ten months (ref B).
- The Canadian Forces Clothing and Equipment Questionnaire (CFCEQ) involved the development of a modular questionnaire to obtain detailed feedback on a set of in-service clothing and equipment from a representative user group. The questionnaire was administered to 1 R.C.R and investigated the need for a formal briefing and respondent supervision during questionnaire completion. (ref C).
- A revised CFCEQ, incorporating lessons learned from the first survey, was evaluated with 2 P.P.C.L.I. This project investigated the issues associated with incorporating a focus group methodology into the survey tool. In addition, usability and utility issues regarding the questionnaire were elicited from respondents (ref D).

In all cases, User feedback was invaluable in identifying clothing and equipment deficiencies and providing guidance for future development and procurement efforts.

Based on the need to build on the success of these earlier projects, DCIEM has undertaken to develop a standardized, questionnaire survey system (i.e. the Army Combat Clothing and Equipment Survey System or ACCESS) for collecting and analyzing User feedback on clothing and equipment issues.

Previous studies have identified that there is a need to find a systematic way to select priority items from the many hundreds of in-service Army items for ACCESS assessment. Part 3 addresses these recommendations to develop a questionnaire system that will filter and prioritize clothing and equipment items to select for further, detailed analyses. In addition, part 3 investigates various Unit distribution approaches. Previous ACCESS studies have been trialled with and without briefings and on-site supervision (ref C). Part 3 addresses the need to explore additional distribution method options by integrating a questionnaire system that is distributed remotely to an Army Unit.

1.1 Aim

The aim of this project was to further develop an Army Combat Clothing and Equipment Survey System (ACCESS) and analyze factors critical to the successful implementation of a permanent user feedback tool for those involved in operational clothing and equipment development, acquisition, and life cycle management. Part 3 focuses on developing and distributing 'Newspaper Insert Surveys' and 'Detailed Questionnaires', and analyzing factors critical to their successful implementation. These implementation methods were selected in order to assess their effectiveness in prioritizing items for ACCESS analyses. Detailed Questionnaires will be administered remotely at an Army Unit to assess the effectiveness of such a distribution methodology. In addition, stakeholder interviews and findings from all parts of the projects are to be summarized for successful system implementation.

2.0 METHOD

This project included the development, distribution and review of Newspaper Insert Surveys and Detailed Questionnaires, as well as a stakeholder review of ACCESS and issues associated with implementation.

Newspaper Insert Surveys focusing on the overall acceptability of twenty-two items of in-service clothing and equipment were developed. The surveys were inserted into 4500 newspapers for widespread distribution in Land Forces Western Area (LFWA). Newspaper inserts were provided with Canada Post Business Reply Mail Envelopes to be returned at no cost to the respondent.

For the Detailed Questionnaires, questionnaires were produced for five clothing and equipment items using the ACCESS design. Packages with instructions and questionnaire evaluation forms were sent and distributed to 250 military personnel in CFB Winnipeg, Manitoba. Respondents completed the questionnaires concurrently in a CFB theatre. Completed packages were collected by an OPI and returned for data reduction and analyses.

Stakeholder focus groups were held following the preliminary analyses of the Newspaper Insert Surveys and Detailed Questionnaires to identify issues regarding the usability, utility and implementation of ACCESS.

Methods are discussed in further detail below.

2.1 Development and Distribution of a Newspaper Insert Survey

A Newspaper Insert Survey was developed to investigate the ability of a short overview questionnaire to provide feedback concerning the overall acceptability of various clothing and equipment items. For the purposes of this project, Newspaper Insert Surveys were intended to prioritize User acceptance of various in-service items and provide insight into response rates and characteristics of respondents.

The Newspaper Insert Surveys provided basic instructions, asked for general personal information, and requested a listing of the three worst and best items of clothing and equipment. The newspaper inserts focused on the overall acceptability of twenty-two items of clothing and equipment. A section was also provided for comments regarding the performance and acceptability of these items and the acceptability of the questionnaire itself. To help ensure individual results were kept confidential, the questionnaires were classified as "Protected A" once completed by a participant. An example of a Newspaper Insert Survey is provided in Annex A.

The twenty-two items of clothing and equipment surveyed included:

1. New CF Helmet
2. Combat Jacket
3. Rain Jacket
4. IECS Jacket – UNPROFOR
5. IECS Fleece Top – UNPROFOR
6. IECS Parka – UNPROFOR
7. Combat Glove (Inner)
8. Combat Glove (Outer)
9. Combat Trousers
10. IECS Fleece Pants – UNPROFOR
11. IECS Windpants - UNPROFOR
12. Long Underwear
13. Socks, MVP
14. Gray Socks
15. Combat Boot (GS Mk III)
16. H.H. Brown Prospector Boots – UNPROFOR
17. Webbing, 1982 Pattern
18. Rucksack, 1982 Pattern
19. NBC C4 Mask Carrier
20. Load Carriage Vest – UNPROFOR
21. Multi Tool
22. Combat Cap

A seven-point rating scale for acceptability was used to rate the items of clothing and equipment. An example scale is provided in Figure 1 below. A seven-point rating scale was used (rather than a five-point scale) because higher precision was necessary given the importance of prioritization decisions.

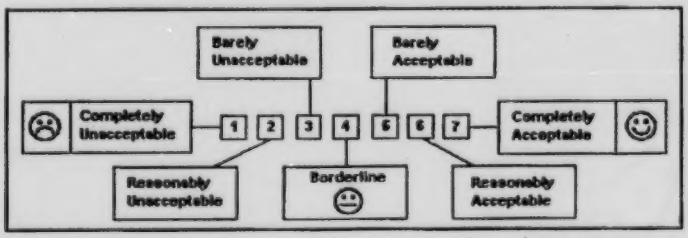


Figure 1. Seven-point interval acceptability rating scale

Distribution consisted of 4500 Newspaper Insert Surveys placed in The Garrison (i.e. the Canadian Forces newspaper in the Western Area). The ACCESS newspaper inserts were sent to the Gazette Press on May 5, 1998. Newspaper inserts were placed in the Thursday May 21, 1998 edition of the Garrison. Administration fees (approximately $300) were paid to have the questionnaires inserted.

The Garrison is distributed every two weeks to both military (CFB Edmonton, CFB Wainwright) and non-military personnel in the St.Albert, Alberta region (St.Albert, Morinville, Sturgeon County).

Newspaper Insert Surveys were provided with Canada Post Business Reply Mail Envelopes. Participants were instructed to complete the questionnaire, fold it in half, place it into the envelope provided, and mail the envelope. Envelopes were delivered to DCIEM by Canada Post and subsequently to Humansystems Incorporated for analyses. Envelopes received up to July 23, 1998 were included in the data analyses (i.e. 11 weeks from initial distribution and insertion).

As feedback to the respondents, an article was placed in The Garrison to thank all those who responded to ACCESS. The article provided a brief summary of results, including items rated acceptable by less than half of the respondents, and the items listed most frequently as the "Worst" or "Best" items. Feedback was reviewed by DLR-5 prior to distribution.

2.2 Development and Distribution of Detailed Questionnaires

Detailed Questionnaires were developed to investigate the suitability of using a questionnaire survey system to elicit user feedback and to build on the work from the previous two projects (references C and D). The questionnaire style was consistent with previously used ACCESS questionnaires to ensure utility and usability was retained. An example of the Detailed Questionnaires package is provided in Annex B.

A Detailed Questionnaires package consisted of instructions for filling out the questionnaires (printed on the envelope), definitions of terms, personal information, and a questionnaire for each item of clothing and equipment. The five items of clothing and equipment that were investigated included:

1. Webbing, 1982 Pattern
2. New CF Helmet
3. Rain Jacket
4. Multi Tool
5. NBC C4 Mask Carrier

Each ACCESS questionnaire included some of the following sections of data blocks.

- **Specific Features:** Using an illustration of the item, specific features were listed and indicated with pointers. Respondents were required to rate the functionality and durability of each feature.
- **Whole Item:** Respondents were required to rate suitability of each item for physical activities, environmental conditions, stowage (personal load carriage and in vehicles), compatibility with other clothing, equipment and weapons, durability, care, adjustment, use in vehicles, comfort (physical and thermal) and other item specific issues.
- **Fit:** Respondents were required to rate the suitability of fit for a number of critical sizing and fit dimensions for the item.
- **Overall Ratings:** Respondents were required to provide an overall rating for appearance, functionality, and durability.
- **Size Issued:** Respondents were required to indicate the size of the item they were issued.

- **Replacement Items:** If respondents had purchased a replacement item for their in-service kit, they were required to indicate the names or model numbers of each item.
- **Sizing:** Respondents were required to indicate if a measurement template was used to determine their size (e.g. Helmet Sizing).
- **Manual:** Respondents were required to indicate if an instruction manual was issued with the item. They were also required to indicate if they had read the manual (if issued).
- **Shooting Eye:** Respondents were required to indicate the eye that they used to shoot the C7 Rifle.
- **Damaged Parts:** Respondents were required to indicate if parts of the item were damaged and the cause of the damage.
- **Comments:** Respondents were required to provide comments to explain their reasoning behind high and low ratings, and to recommend any improvements to the in-service item.

The primary rating scale used in the questionnaire comprised a five-point interval scale for acceptability. A five-point interval scale was used (rather than a seven-point scale) because less time would be required of the respondent to complete the numerous questions. Because the questions were more specific, less precision was required. An example scale is provided below in Figure 2.

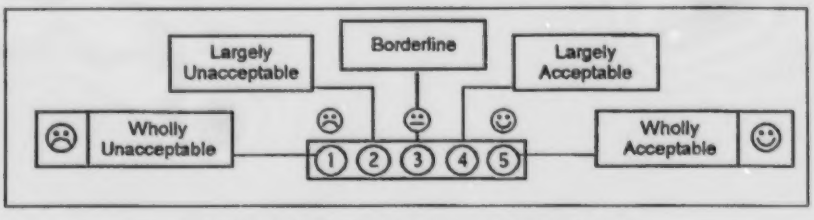


Figure 2: Five-point Acceptability Scale

Two hundred and fifty Detailed Questionnaires were sent to the Training Officer at 2nd Battalion P.P.C.L.I in CFB Winnipeg, Manitoba. The Detailed Questionnaires packages were sent on June 18, 1998. During the first week in July, the surveys were administered to a large group of military personnel tasked to complete the survey in a theatre on base. According to the training officer on-site, the Detailed Questionnaires took 45 minutes on average to complete, taking from between 10 minutes to 70 minutes.

Completed packages were collected by the training officer and mailed to Humansystems Incorporated. They were received on July 15th, 1998 (i.e. 4 weeks from the time of distribution)

As feedback, a letter was sent to the Commanding Officer to thank the Unit for their participation and reassert the goals of the project.

2.3 ACCESS Evaluation Questionnaire

Following the completion of the ACCESS Detailed Questionnaires, all participants completed a further questionnaire designed to evaluate the ACCESS questionnaire. The evaluation questionnaire asked participants to rate their overall impressions of the questionnaires to help improve the design and distribution of future ACCESS surveys. Participants were asked to identify their level of agreement with 19 overall impression questions. The evaluation form also asked participants to list clothing and equipment items that should be evaluated in future ACCESS surveys. A copy of the evaluation questionnaire is included in Annex B.

The primary rating scale used in the ACCESS Evaluation Questionnaire was a five-point interval scale for agreement/disagreement with a statement. An example scale is provided in Figure 3.

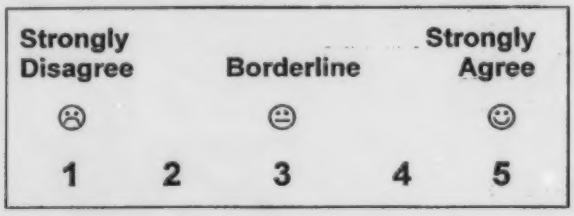


Figure 3: Agree/Disagree Rating Scale

2.4 Stakeholder Review

Focus Groups were conducted with stakeholders involved in the clothing and equipment procurement and acquisition cycle to identify and validate the requirements of ACCESS.

Stakeholder focus groups were conducted on January 25, 1999 and March 1, 1999. Stakeholders (listed in Table 1) consisted of DLR, DSSPM, and DCIEM representatives. Trial participants were selected to represent a cross section of the potential stakeholder population.

	Participants
DLR	• Major S. Beausejour • Major M. Douglas • Major D. Palmer (telephone interview) • Capt. Delanghe • Capt. Hardwick • Sgt. Parolin • Capt. Lasarre • Raymond Touchette
DSSPM	• Brian Barnwell • Margaret Mech • Dawn Carrick • Ian Craigie (absentee comments provided)
DCIEM	• Major L. Bossi • Capt. R. Poisson • Capt. R. Sloan • 2Lt J. Adams • Walter Dyck

Table 1: ACCESS Stakeholder Review

Focus groups included a tool description and then discussion topics. Stakeholder discussions were focussed on the following issues:

- ACCESS Content (General Usability and Utility),
- Analyses Options and Reporting to Stakeholders,
- Options for Feedback to Soldiers,
- Strategies for Implementation,
- Implementation Options, and
- Future Opportunities.

3.0 RESULTS

This section describes the summary results from the Newspaper Insert Surveys and the Detailed Questionnaires. It also describes the results of the Access Evaluation Questionnaire and Stakeholder Focus Groups.

3.1 Personal Information

This section describes the profiles of the respondents that completed the ACCESS questionnaires. The Director of Human Resources Information Management (DHRIM) provided profile information of the Canadian Forces. These are provided below for comparative analyses of the survey participants to the CF land force population.

3.1.1 Physical Characteristics:

A total of 387 participants (8.6%) responded to the Newspaper Insert Surveys. Of the respondents, 262 (68%) were male, 26 (7%) were female, and 99 did not indicate their gender. A total of 224 participants (90%) responded to the Detailed Questionnaires. Of the respondents, 183 (82%) were male, 2 (1%) were female, and 39 did not indicate their gender. DHRIM profile data indicated that the Land Force Command total strength (as of Feb 27, 1999) consisted of 92% males (18502) and 8% females (1615). Accurate comparisons between the DHRIM profile data and the ACCESS results were difficult to conduct because a number of respondents did not indicate their gender. However, trends in the data indicate that both the Newspaper Insert Surveys and the Detailed Questionnaires underrepresented the percentage of females in the Land Forces.

Table 2 describes the self-reported physical characteristics of the participants as well as the corresponding measures from the 1997 Anthropometric Survey of the Land Forces (Ref. E).

	Participant Information								
	Newspaper Insert Surveys			Detailed Questionnaires			Land Force Survey 1997		
Variable	n	Mean	s.d.	n	Mean	s.d.	n	Mean	s.d.
Height (mm) – Male	259	1793.8	75.2	182	1783.8	68.0	465	1755.1	65.3
Height (mm) - Female	26	1659.8	66.5	2	1612.9	53.8	243	1635.7	56.9
Weight (kg.) – Male	260	84.3	10.8	182	81.9	9.6	465	81.9	12.5
Weight (kg.) – Female	26	67.1	11.7	2	62.42	4.8	243	67.7	12.2
Chest Circumference (mm) – Male	-	-	-	171	1063.5	90.3	465	1026.8	82.2
Chest Circumference (mm) – Female	-	-	-	2	939.8	35.9	243	952.7	93.6
Waist Circumference (mm) – Male	-	-	-	180	839.8	64.3	465	924.6	103.9
Waist Circumference (mm) – Female	-	-	-	2	749.3	18.0	243	865.3	128.7

Table 2: Participant Physical Characteristics.

For the Newspaper Insert Surveys, the male respondents' self-reports of their height and weight were significantly greater ($p<0.05$) than the 1997 Land Force Survey participants. While females also had significantly greater heights ($p<0.05$) than the 1997 Land force Survey participants, their weights were not significantly different ($p<0.05$). These results should be used with caution because approximately 25% of the respondents did not indicate their gender.

For the Detailed Questionnaires, the male respondents' self-reports of their height and chest circumference were significantly greater ($p<0.05$), than the 1997 Land Force Survey participants. Male respondents' self-reports of their waist circumference were significantly smaller ($p<0.05$), than the 1997 Land Force Survey participants. Male respondents' self-reported weight was not significantly different ($p<0.05$) than the 1997 Land Force Survey participants. There were not enough female respondents to make a statistical comparison to the 1997 Land Force Survey participants.

The bias of self-reported measures that was found in this study is typical of surveys that request self-reported measures. Overestimation of height of both males and females is consistent with other survey data (Reference F) which found that men overestimate their height by 13.3 mm. Self-reported measures collected from surveys should be looked at critically to ensure that bias is considered.

3.1.2 Unit

Figure 4 indicates the number of participants from each trade who completed the Newspaper Insert Survey. For the Detailed Questionnaires, 98% of participants were from 2 PPCLI and 2 % were from 1 PPCLI.

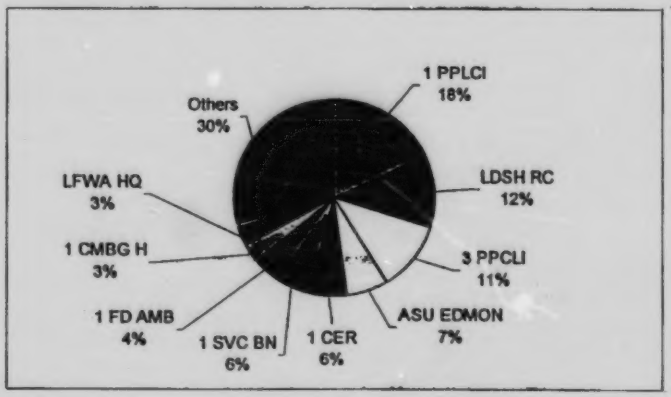


Figure 4: Units of the Newspaper Insert Survey Participants.

3.1.3 Length of Adult Service

Table 3 indicates the length of adult service. Trends in the data suggest that a larger proportion of the respondents for the Newspaper Insert Survey had more than 10 year of service whereas a larger proportion of the Detailed Questionnaire respondents tended to have 5 years of service or less.

	Length of Adult Service							
	0 – 1 Years		1 – 5 Years		6 – 10 Years		> 10 Years	
	n	%	n	%	n	%	n	%
Newspaper Insert Survey	8	2%	59	15%	80	21%	238	61%
Detailed Questionnaires	30	13%	63	28%	65	29%	62	28%

Table 3: Length of Adult Service

3.1.4 Operational Deployments

Table 4 indicates the number of operational deployments undertaken by respondents.

	Operational Deployments							
	None		One		Two		Three or More	
	n	%	n	%	n	%	n	%
Newspaper Insert Survey	85	22%	117	30%	111	29%	74	19%
Detailed Questionnaires	71	32%	60	27%	54	24%	39	17%

Table 4: Number of Operational Deployments

3.1.5 Rank

Table 5 indicates the ranks of the respondents. DHRIM information (as of Dec 31, 1998) has been provided for comparison to Regular forces, Reserve forces, and both. For the purposes of classification, Junior NCM included CPL and MCPL. Senior NCM included SGT, WO, MWO, and CWO.

Trends in the data suggest that the Newspaper Insert Survey under-represented the proportion of Privates, while over-representing the proportion of Junior NCMs and Officers. For the Detailed Questionnaire, the proportion of Junior NCMs was largely over-represented whereas the other ranks were under-represented.

	Rank							
	Private		Junior NCM		Senior NCM		Officer	
	n	%	n	%	n	%	n	%
Newspaper Insert Survey	48	12	169	44	89	23	78	20
Detailed Questionnaires	63	28	128	57	22	10	7	3
DHRIM (Regular force)	8362	40	5760	28	4207	20	2419	12
DHRIM (Reserve force)	15175	47	7735	24	6000	18	3677	11
DHRIM (Reg. and Res.)	23537	47	10495	21	10207	20	6096	12

Table 5: Rank Distibution

3.1.6 Component

Table 6 indicates the components of the respondents. DHRIM information (as of Dec 31, 1998) has been provided for comparison of Regular and Reserve Forces. Trends in the data indicated that both the Newspaper Insert Survey and the Detailed Questionnaires over-represented the proportion of regular force and under-represented the proportion of Reserve Land Forces personnel.

	Components					
	Regular Force		Reserve Force		Other / Not Completed	
	n	%	n	%	n	%
Newspaper Insert Survey	337	87%	46	12%	4	1%
Detailed Questionnaires	220	98%	0	0%	4	2%
DHRIM	20748	39%	32662	61%	-	-

Table 6: Components

3.1.7 Military Occupational Codes (MOC)

Figure 6 indicates the MOC of the respondents who completed the Newspaper Insert Survey. Figure 7 indicates the MOC of the respondents who completed the Detailed Questionnaires.

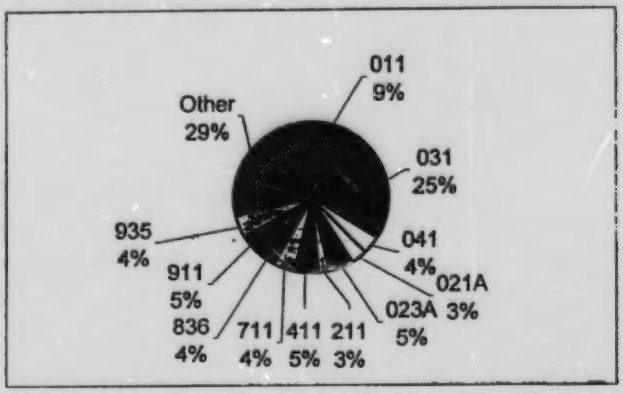


Figure 6: MOCs of the Newspaper Insert Survey Participants.

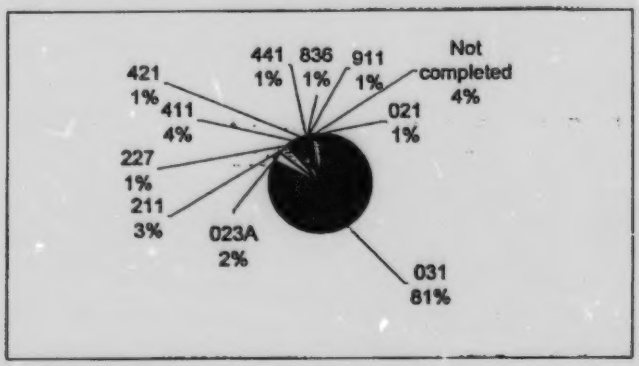


Figure 7: MOCs of the Detailed Questionnaire Participants.

The trades corresponding to each MOC are listed below.

011 – Armour

021 – Artillery Fd

021A – Artillery Fd Officer

023A – Air Defence Artillery Officer

031 – Infantry

041 – Field Eng.

211 – Radio Op.

227 – Land Communications and Information Systems Technician

411 – Vehicle Tech.

421 – Weapons Tech.

441 – Material Tech.

711 – Med. Assistant

836 – Resource Management Support Clk.

911 – Supply Tech.

935 – MSE Op.

3.2 ACCESS Questionnaire Item Results

Results for the ACCESS Newspaper Insert Survey and Detailed Questionnaires items are provided in Annex C and Annex D respectively. These results include descriptive statistics and frequency histograms for the percentage of respondents reporting a rating of "unacceptable." These results are provided for the benefit of the Clothe-the-Solder program. Further statistical analysis of the data and discussion of results, for these individual clothing and equipment items, is beyond the scope of this project.

3.2.1 Best and Worst Items

This section lists the items rated "best" and "worst" by respondents of the Newspaper Insert Survey. Table 7 summarizes the results for the Newspaper Insert Survey. The top ten items rated as "best" or "worst" are detailed along with the number and percentage of respondents who identified each item. Comments by the respondents are provided in Annex C.

WORST ITEMS			BEST ITEMS		
Item	n	%	Item	n	%
1. Rucksack	159	41	1. Bivi Bag	104	27
2. Boots, Cbt	147	38	2. IECS Jacket	96	25
3. Jacket, Cbt	134	35	3. IECS Shirt/Pants (fleece)	92	24
4. Glove, Cbt	117	30	4. Helmet, New	52	13
5. Cap, Cbt	63	16	5. Boots, Goretex	49	13
6. Rain Gear (jacket, pants)	59	15	6. Multitool	42	11
7. Webbing	53	14	7. Socks, Goretex	42	11
8. Socks, Wool	51	13	8. LCV	39	10
9. Underwear, Long	37	10	9. Pants, Cbt	32	8
10. Sweater	21	5	10. Sleeping Bag	32	8

Table 7: Top Ten "Best" and "Worst" Items

3.3 ACCESS Evaluation Questionnaire

Results obtained from the ACCESS Evaluation questionnaire are summarized below.

3.3.1 Overall Ratings

This section describes the respondents overall impressions of the Detailed Questionnaires. Table 8 summarizes these results. The average agree/disagree ratings are detailed, as well as the percentage of respondents who disagreed with each statement (i.e. a rating less than 3).

	Overall Ratings	
Statements:	Mean	% Disagree
1. I found the questionnaire easy to understand.	4.1	1.4%
2. The questionnaire was easy to complete.	4.1	3.7%
3. I was able to indicate all of my concerns with this questionnaire alone.	3.6	15.4%
4. The rating scale was easy to use.	4.1	3.7%
5. I am confident that I know my height.	4.5	1.9%
6. I am confident that I know my weight.	4.5	2.8%
7. I am confident that I know my chest size.	4.2	10.3%
8. I am confident that I know my waist size.	4.5	2.8%
9. I had sufficient space to write all my comments.	4.4	1.9%
10. The drawings of each item clearly indicated all the important features.	4.3	0.5%
11. I fully understood all of the terms used in the questionnaire.	4.2	2.8%
12. I believe a thorough briefing is required with this questionnaire.	2.7	47.9%
13. I know the sizes of all items of my kit.	4.2	3.3%
14. The questionnaire instructions were clear.	4.4	0.9%
15. I am familiar with the current UCR system.	3.0	34.7%
16. I am satisfied with only providing my comments using the UCR system.	3.1	32.7%
17. I had sufficient time to complete the questionnaire.	4.3	5.6%
18. I want an annual soldier feedback questionnaire for clothing and equipment.	3.7	19.2%
19. I would complete additional questionnaires in the future	3.9	15.0%

Table 8: Overall Ratings

Generally, respondents indicated general agreement (less than 20% "% disagree") with the statements, with the exceptions of #12, #15, and #16.

The following points summarize the findings of the ACCESS Evaluation questionnaire.

- The ACCESS questionnaire design was easy to use and understand.
- A thorough briefing is not required for the ACCESS questionnaire [see #12].
- Respondents were confident that they knew their own body dimensions.
- Not all respondents were confident that they knew the sizes of all their kit items.

- Respondents were not familiar with the UCR system and were not satisfied with only providing their concerns through the UCR process [see #15 & 16].
- All respondent concerns could not be indicated with the ACCESS questionnaire alone.
- Respondents wanted an annual soldier feedback questionnaire for clothing and equipment.
- Respondents would be willing to complete additional questionnaires in the future.

3.3.2 Future Research

What clothing and equipment items should be evaluated next?

Table 9 summarizes the results for the question regarding future research. The top ten items are detailed along with the number and percentage of respondents who identified each item.

ACCESS Detailed Questionnaires Future Research	n	% of respondants (n=224)
1. Boots, Combat	112	50%
2. Rucksack	104	46%
3. Jacket, Combat	37	17%
4. Gloves, Combat	36	16%
5. Combats (Shirt/Pants)	36	16%
6. Cap, Combat	22	10%
7. Parka	17	8%
8. DEU	11	5%
9. Fragmentation Vest	8	4%
10. Underwear	7	3%

Table 9: ACCESS Detailed Questionnaires Future Research

Results were consistent with the Newspaper Insert Survey listings of "best" and "worst" items (see 3.2.1). Five of the top six items identified as requiring future research (Combat Boots, Rucksack, Combat Jacket, Combat Gloves, and Combat Cap) correspond to the tope five "worst" items. The consistency between survey methods indicates that the different questionnaire approaches could elicit similar results.

3.4 ACCESS Stakeholder Focus Groups

Comments and suggestions obtained during stakeholder focus groups are compiled and summarized in this section.

3.4.1 Overall Usability

a. ***Use Label Names***: Stakeholders suggested the addition of the NATO Stock Number (NSN) to the questionnaire pictures to avoid confusion regarding the item in question. Further discussion indicated that using the name on the label affixed to the issue item would be a better indicator since the NSN may differ according to the size of the item. When appropriate and room is available, both descriptions and NSNs could be used.

b. ***Make Bilingual:*** Questionnaires and results should be bilingual if appropriate for the target population.

c. ***Allow for Comments:*** Sections provided for comments are adequate and should be retained to provide opportunity for respondents to explain "why" and offer possible solutions to problems.

d. ***Expand Usage:*** For the Newspaper Insert Survey, "not worn" should be expanded to "usage" ("none", "occasional", and "frequently").

3.4.2 Overall Utility

a. ***Benefits of ACCESS:*** Stakeholders believed that ACCESS would fit well into the lifecycle management of clothing and equipment. ACCESS should also be used to gather information prior to the generation of Statement of Requirements. The quantifiable results are preferable to "word of mouth" and valuable in justifying and prioritizing needs. Results may also form the basis for the creation of business plans, budgets and resources.

b. ***Deficiencies with ACCESS:*** Some concern was expressed that some results from detailed questionnaires may contradict with each other. This supports the need to focus group the questionnaire results for clarification. Some stakeholders also had concerns about insufficient NDHQ staff and resources (time and funding) to support new item concerns arising from the ACCESS data. The success of ACCESS would inevitably result in greater workload demands on DSSPM and DLR staff. This supports the use of ACCESS to prioritize concerns.

c. ***Deficiencies with UCR:*** Stakeholders re-iterated concerns regarding the current UCR system. There is a common misperception among soldier's that changes are easy, yet, there is limited budget, time and information to act quickly on all concerns. In addition, the UCR does not elicit enough information (e.g. concept of use, environment, etc.) to make informed decisions and changes. It was recognized that ACCESS would overcome many of the deficiencies noted regarding the UCR system.

3.4.3 Analysis Options and Reporting to Stakeholder

a. ***Format:*** Stakeholders commented that results should be provided in a standard format. Graphs should indicate "% acceptable" rather than "% unacceptable." Results should be reported so that "lessons learned" can be used to track successes and deficiencies in items. A "database" of information (e.g. Soldier's Day) should be used to archive results to ensure a "corporate memory" is retained so that designers and other users may reference the information in the future.

b. ***Content:*** The content of the results should include summary statistics (means, standard deviations. % acceptable) and histogram representation. More detailed analyses may be required for some items. Analyses may include correlation, multivariate regression, and meta-analyses to support more complex analyses by DCIEM.

3.4.4 Feedback to Soldiers

a. ***Content:*** Completion of questionnaires will generate expectations in the respondents. Feedback is important and should be provided to respondents within one month and include "action items" for major issues and high-level findings. Feedback should indicate what is being done, what is not being done, and why. Feedback to participants in the detailed questionnaires and focus groups should include thank-you acknowledgements and an executive summary of results. Feedback may be used as an opportunity to outline the many variables and complexities involved in the determination of an item's acceptance.

b. ***Mechanism:*** The "Maple Leaf" newspaper may be a good tool to provide nationwide feedback and acknowledgement. Efforts should be made to ensure feedback is not edited without permission. PMOs of related projects (e.g. Clothe the Soldier, IPCE) should review feedback prior to distribution. Once reviewed, feedback should be provided to Commanding Officers (and G3 Equipment) of participating Units.

c. ***Responsibility:*** It was suggested by DCIEM that feedback regarding "acknowledgements" be the main responsibility of DCIEM in regards to feedback. Feedback regarding "findings and proposed directions" should be the responsibility of DLR, or those setting the action plans with regard to the results.

d. ***Recipients:*** The results of questionnaires may, in some cases, be sensitive in nature. Determination of the distribution list for results and feedback should be carefully considered during the development phase of the questionnaire.

3.4.5 Strategies for Implementation

a. ***Distribution Mechanism:*** Stakeholders preferred a controlled, mandatory style of distribution rather than Newspaper Insert Surveys. Newspaper Insert Surveys were viewed as costly and potentially unrepresentative (due to low response rate and uncontrolled distribution). Stakeholders suggested that the Annual Departmental Training sessions be used for distribution. The ACCESS system would need to be mandated by the Director General of Land Force Requirements (DGLFR) as part of the Annual Departmental Training sessions. Questionnaires would be copied prior to distribution to ensure the quality is sufficient for computer scoring. Boxes of ACCESS questionnaires would be given to a Unit OPI (e.g. G3) for distribution and collection.

b. ***Distribution Recipients:*** Distribution should include nationwide sampling because bias is likely to exist by location. Distribution should also include both Reserve and Regular forces.

c. ***Approval of Distribution Process and Survey Items:*** Stakeholders should be involved as advisors during the development of the surveys to ensure all issues are addressed. The Operational Protective Clothing and Individual Equipment Working Group (OPCIEWG), which includes DCIEM, may be the level at which items that are to be investigated using ACCESS are discussed and priorities set. These recommendations are then brought up to the AEWG through representatives of DLR and DSSPM. Approval would be required from the Army Equipment Working Group (AEWG). This group, which includes all of DLR and representatives from DSSPM, may be the driving authority.

d. ***Frequency:*** ACCESS should be distributed at the Battalion level at different times of the year (i.e. to elicit a good seasonal mix) to different areas. Concerns were raised regarding overuse. A Unit should not be surveyed with detailed questionnaires more than once per year. Due to the large number of items that could be part of Newspaper Insert Survey, items should be segmented into groups of 50. The same group of items should not be queried sooner than every three years. Newspaper Insert Surveys may be performed twice a year for a different group of items for a different Unit. This variety will help to avoid "routinizing" the procedure for potential respondents.

e. ***Maintenance of ACCESS:*** DCIEM was viewed to be effective in maintaining the tool as a research and development tool. In the future, the possibility of a trained Human Factors Specialist located at DLR may serve as an adequate base of operations for ACCESS. Care must be made to ensure that somebody qualified in subjective assessment techniques and statistical reasoning manages ACCESS.

f. ***ACCESS Repository of Information:*** DCIEM identified a need to maintain a repository of ACCESS information and results. All ACCESS reports, results and raw data should reside in a controlled site such as DCIEM for ease of future accessibility and technical continuity. Such a repository would support project memory, and provide opportunities of macro-analyses.

g. ***Funding:*** All stakeholders expressed concern with regard to future funding. Future ACCESS items might be funded through a Standing Offer from which funding for research into items may be drawn. DLR would be required to conduct logistics such as arranging units and FIN codes necessary to investigate items.

3.4.6 Future Opportunities

a. ***Investigate Web-Based Surveys.*** Internet surveys are not practical for most CF personnel. Possible problems included a limited target population, lack of control (i.e. possible repetition), and support resources not set up within the military infrastructure. It was recommended that this methodology be revisited and reviewed in the future.

b. ***Apply ACCESS to other Environments.*** The system should be applied to other arms within the Land, Air and Maritime Environments.

c. ***Investigate additional items.*** ACCESS should extend to other categories of items (e.g. weapons, vehicles, food.)

4.0 DISCUSSION

Key issues associated with ACCESS usability, methodology and the needs of stakeholders are discussed in this section. An ACCESS methodology is proposed based on the findings of all ACCESS studies conducted to date. In addition, future work is proposed.

4.1 Questionnaire Usability

ACCESS questionnaire usability is critical to timely completion, comprehension, and User acceptance. Stakeholder interviews and the ACCESS Evaluation questionnaire distributed with the Detailed Questionnaires assessed the questionnaire usability.

Overall, results were positive for the ACCESS Evaluation questionnaire. The questionnaire design for both the Newspaper and Detailed Questionnaires were consistent with formats validated in previous ACCESS studies (ref. C and D) to ensure comprehension and homogeneity in the respondent sample. Consistent with previous studies, respondents indicated that the questionnaire was easy to understand and complete, the drawings were useful, and the instructions were clear. Suggested improvements included using label names as item descriptors, making the survey bilingual, and eliciting more detailed "usage" information at the level of the Newspaper Insert Survey.

4.2 ACCESS Methodology

This section proposes a methodology for ACCESS based on the results of this project and previous projects (ref. C and D). The following proposed method utilizes a three-tiered approach to identify operational item deficiencies, elicit user feedback, insights and requirements for items in the acquisition cycle, and track the operational effectiveness of acquired items once in service. The three-tiered approach aims at funneling and focusing the direction and efforts of each subsequent layer (see Figure 8). The three tiers include: (1) Preliminary Acceptance Surveys; Detailed Questionnaires; and (3) Focus Group Discussions.

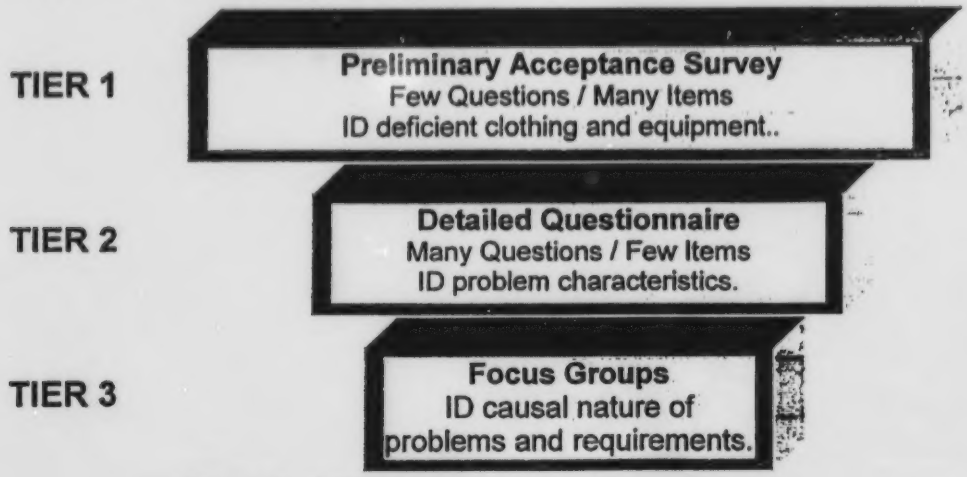


Figure 8: ACCESS Three-Tiered Approach

4.2.1 Tier 1: Preliminary Acceptance Survey (e.g. Newspaper Insert Survey)

The preliminary acceptance survey will be used to identify which items are perceived by Users to be operationally deficient. The survey would focus on a few vital questions (i.e. overall acceptability, overall functionality, etc.) for a large number of different operational clothing and equipment items.

The key steps in Tier 1 Preliminary Acceptance Surveys are indicated in Table 10 and described in more detail below.

	Key Steps
TIER 1: Preliminary Acceptance Surveys	❑ Determine Items to be reviewed – [OPCIEWG] ❑ Develop Questionnaire ❑ Determine Distribution List of Results ❑ Validate Content (check items, pictures, etc) ❑ Produce Survey and Distribute to OPI [ADT] ❑ OPI to Distribute and Collect Prelim. Accept. Surveys ❑ Collect / Reduce / Analyze Data ❑ Generate Report ❑ Archive Results (entry into database) ❑ Stakeholder Review and Discussion of Results ❑ Generate, Verify and Distribute Feedback to Respondents ❑ Report to AEWG

Table 10: Key Steps of ACCESS Tier 1 Preliminary Acceptance Surveys

The preliminary acceptance survey has been piloted in the form of a Newspaper Insert Survey methodology. The current study found that the methodology was achievable and well received by respondents. However, stakeholders questioned the validity of the results based on the low response rate. Comparison of the respondents to the entire Land Force population (using DHRIM and LF Anthropometric Survey information) suggested that the ACCESS respondents did not accurately match all of the profile items (e.g. rank distribution, gender, component), and anthropometric measurements. To better control the response rate and profile of respondents, it was suggested that ACCESS become part of the Annual Departmental Training (ADT) sessions. Approval to include ACCESS as part of the ADT would need to be mandated by the Director General of Land Force Requirements.

The items to be included in each survey would be determined at AEWG, with representation by all interested stakeholders. In the case of clothing, items would be recommended to the AEWG by the Operational Protective Clothing and Individual Equipment Working Group (OPCIEWG) meetings.

Preliminary Acceptance Surveys will be copied and then distributed to units nationwide. Boxes of ACCESS Preliminary Acceptance Surveys would be tasked at the battalion level to an OPI (e.g. G3) for distribution and subsequent collection. The insert will also consist of a short personal information sheet and one to three ratings of overall acceptability questions for each item. Prior to production and distribution, representative stakeholders will validate the content of the questionnaires.

No briefing (other than short, printed instructions) will be provided. Previous ACCESS research (ref C) found that briefings may be desirable, but are not necessary. The clarity of instructions and the usability of the ACCESS design enable respondents to complete the questionnaires without a briefing or supervision.

Computer scoring methods will be used to improve speed, accuracy and efficiency during data reduction and analysis. Results will be provided to stakeholders in a standard format for ease of use. Results will include summary statistics (means, standard deviations, frequency analyses), and histogram representation. On an annual basis, all ACCESS results will be archived in a database for easy reference, and to provide lessons learned.

Feedback is important and should be provided within one month and include "action items" for major issues and high-level findings. Feedback should indicate what is being done, what is not being done, and why. The "Maple Leaf" newspaper may be a good means of providing nationwide feedback. Efforts should be made to ensure feedback is not edited by the newspaper without the author's permission. PMOs of related projects (e.g. Clothe the Soldier, IPCE) should review feedback prior to distribution. Feedback to participants in the preliminary acceptance survey should include thank-you acknowledgements and an executive summary.

The respondents need for a general, timely feedback tool was reinforced by the results of the ACCESS Evaluation questionnaire. Users were in agreement with questions regarding the need for an annual soldier feedback questionnaire for clothing and equipment, and willingness to complete additional questionnaires in the future.

The preliminary acceptance survey will be used to select deficient items for further, detailed investigation in Tier 2: Detailed Questionnaires.

4.2.2 Tier 2: Detailed Questionnaires (e.g. Unit Supervised Session)

Detailed questionnaires are designed to determine which specific attributes, features, conditions of use, and tasks account for the overall deficiency identified in the preliminary acceptance survey. The detailed questionnaires will focus on a large number of questions for a small number of different items. The items to be included in a detailed questionnaire will depend on priorities identified in the Preliminary Acceptance Survey, or other priorities identified by concurrent acquisition projects (e.g. Clothe the Soldier). Items will be selected according to discussions and priorities set by the AEWG or, in the case of clothing, during OPCIEWG.

Packages of questionnaires will be distributed to a Unit OPI for distribution to participants. Optimizing opportunities may be required if exercises exist that could easily and quickly be tapped as a source of potential respondents. Attention should be given to ensure the targeted respondents will include a representative profile of the Land Forces personnel.

The key steps in the Tier 2 Detailed Questionnaires are indicated in Table 11, and described in more detail below.

	Key Steps
TIER 2: **Detailed Questionnaires**	❑ Determination of Items (based on Tier 1) [OPCIEWG] ❑ Questionnaire Development ❑ Determination of Recipients of Results ❑ Validation of Content (verify questions) ❑ Survey Production and Distribution to OPI ❑ OPI to Distribute and Collect Detailed Questionnaires ❑ Data Collection / Reduction / Analyses ❑ Generate Report ❑ Archive Results (entry into database) ❑ Stakeholder Review and Discussion of Results ❑ Generate, Verify and Distribute Feedback to Respondents ❑ Report to AEWG

Table 11: Key Steps of ACCESS Tier 2 Detailed Questionnaires

No briefing (other than short, printed instructions) will be provided. Previous ACCESS research (ref C) found that briefings may be desirable, but are not necessary. The clarity of instructions and the usability of the ACCESS design enable respondents to complete the questionnaires without a briefing or supervision.

Computer scoring methods will be used to improve speed, accuracy and efficiency during data reduction and analysis. Results, including summary statistics and histogram representation will be provided to stakeholders in a standard format, and archived in a database. Results may also include more detailed analyses as required. This may include correlation, meta-analyses, or multivariate analyses.

Feedback should include "action items" for major issues and high-level findings. Feedback should indicate what is being done, what is not being done, and why. PMOs of related projects (e.g. Clothe the Soldier, IPCE) should review feedback prior to distribution. Once reviewed, feedback should be provided to Commanding Officers (and G3 Equipment) of participating Units. Feedback to participants in the detailed questionnaires should include thank-you acknowledgements and an executive summary.

4.2.3 Tier 3: Focus Groups

Focus Group discussions will be employed with a limited sample of respondents to elicit the causal factors underlying the deficiencies identified in the detailed questionnaires. For planned acquisition items, focus group discussion will also include an identification and prioritization of user-based performance requirements and design specifications.

The key steps in Tier 3 Focus Groups are indicated in Table 12, and described in more detail below.

	Key Components
TIER 3: Focus Groups	❑ Determine Items (based on Tier 2) – [AEWG] ❑ Verify Areas of Focus ❑ Prepare for Focus Group ❑ Arrange and Manage FG (e.g. participants, location, etc.) ❑ Conduct Focus Groups ❑ Data Reduction / Analyses ❑ Generate Report ❑ Archive Results (entry into database) ❑ Stakeholder Review and Discussion of Results ❑ Generate, Verify and Distribute Feedback to Respondents

Table 12: Keys Steps of ACCESS Tier 3 Focus Groups

The requirement for focus group discussions was identified in previous ACCESS research (ref D). Respondents indicated that they were unable to fully express all their concerns using questionnaires alone. While questionnaires were comprehensive in the volume of soldier acceptance information they collected about any one item, the questionnaire was insufficient for capturing the reasons underlying their ratings. Written comments were idiosyncratic and possibly unrepresentative of the larger group's reasoning. Human factors methods suggest that a focus group could offer an effective supplement to the ACCESS questionnaire to elicit the representative "why", during scientifically moderated open forum discussion, to explain the rationale behind respondent ratings. Feedback for the focus groups would be combined and reported with the Tier 2 feedback.

4.3 ACCESS Stakeholders and Key Tasks Supported

ACCESS supports task activities throughout the life cycle of an item (i.e. before, during, and after the acquisition cycle itself). The acquisition cycle below depicts typical human factors engineering activities, as adapted from STANAG 3994. The application of ACCESS to this acquisition cycle is shown in Figure 9 below. The range of potential uses will vary depending on when ACCESS is employed in the life cycle of an item.

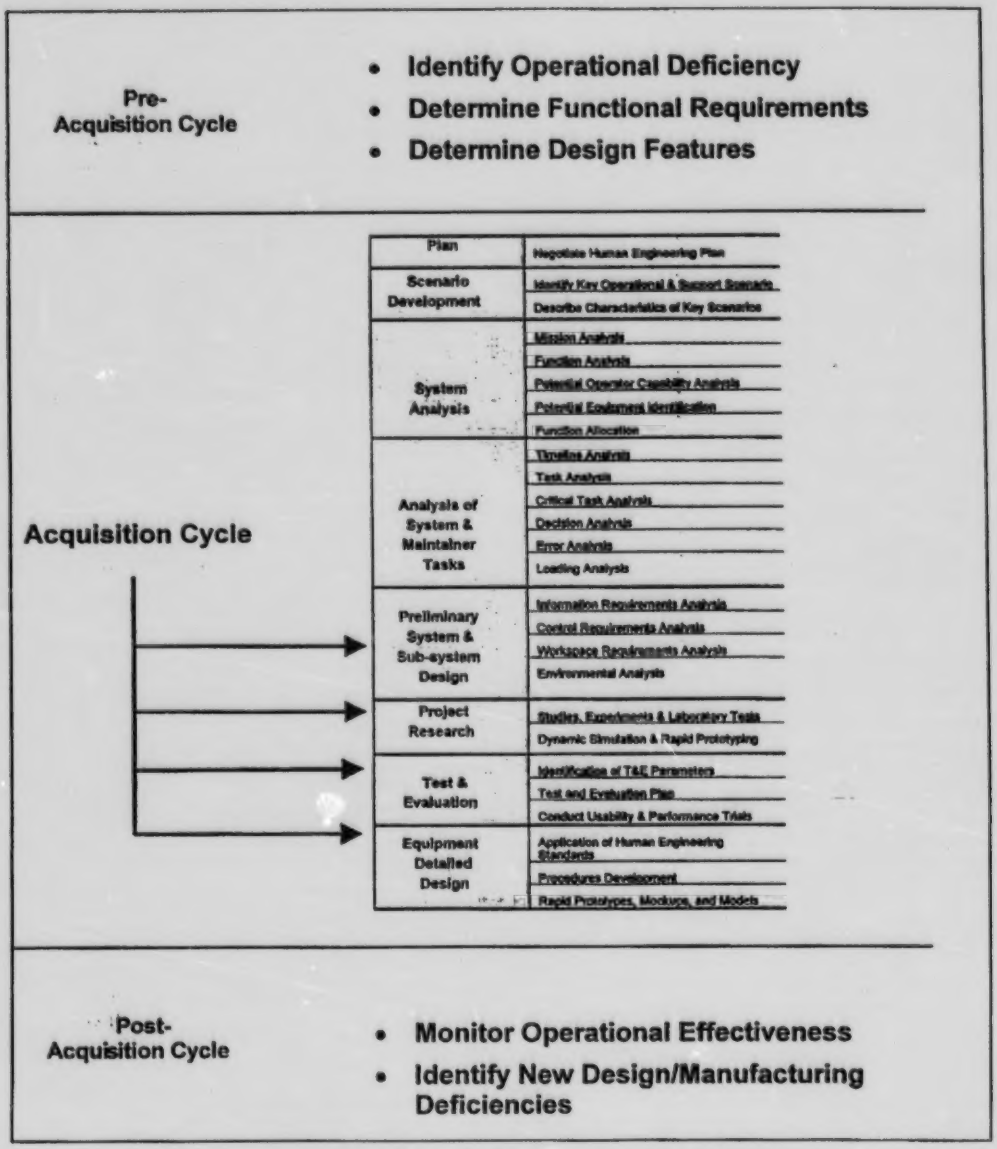


Figure 9: ACCESS Application to the Acquisition Cycle

During pre-acquisition, ACCESS can be used to identify those items perceived to be operationally deficient by the user community. User direction and insight can then be elicited for user-based functional requirements and desired design features to support the front-end definition tasks in the acquisition cycle. Potential users during pre-acquisition could include the LCMM to evaluate user acceptance, the requirements staff to focus procurement and to derive performance requirements, and the project management staff to derive desired design features.

During the acquisition cycle, ACCESS can support design and evaluation tasks by directing design focus and by evaluating mock-ups and prototypes against the requirements data collected in pre-acquisition. Potential ACCESS Users during the acquisition cycle could include requirements staff to further refine requirements and design features, researchers to focus investigation and analysis, engineers to guide design activities, and test and evaluation staff to assess design suitability.

Once an item has been acquired and put into service, ACCESS can support the life cycle monitoring of the item to determine whether the operational requirement has been met and to identify if any design, manufacturing, or material deficiencies exist in the fielded item. Once identified, any outstanding post-acquisition issues can then be objectively resolved. Potential Users during post-acquisition could include the LCMM, project management and requirements staff to monitor the fielded acceptance of an item against the original performance requirements and technical specifications.

Stakeholder discussions indicated that the Defence and Civil Institute of Environmental Medicine has been effective in developing and maintaining the ACCESS tool. For the time being, DCIEM is seen as the best home for the ACCESS tool and is best suited to retaining and analyzing the ACCESS database of information. It was suggested that there was a future possibility of a trained Human Factors Specialist being located at DLR. The decision on the most suitable home for ACCESS may need to be revisited once a Human Factors Specialist becomes established at DLR.

4.4 Future Work

Based on the results and recommendations of this project, the following areas for future work are suggested to further explore the methods and processes of ACCESS.

Investigate additional items. ACCESS now exists in a format and methodology that should be used to investigate additional items within the Land Environment.

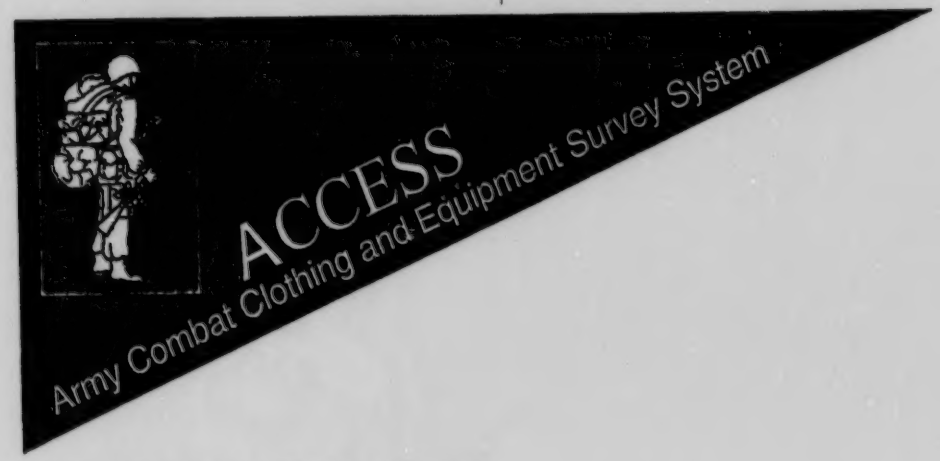
Integrate results into a database. Result collected in the preliminary investigations and future investigations should be integrated into an ACCESS database of information.

Apply ACCESS to other Environments. The system should be expanded to include the Air and Maritime Environments.

Investigate Web-Based Surveys. Possible utilization of web-based surveys or electronic bulletin boards should be retained as a future distribution concept. Attention must be paid to the accessibility of military personal to computers and on-line capabilities to ensure a sufficiently large, representative respondent sample.

ANNEX A

ACCESS
NEWSPAPER INSERT SURVEY



MAIL POSTE
Canada Post Corporation
Société canadienne des postes
Postage paid
If mailed in Canada
Business Reply
Port payé
si posté au Canada
Réponse d'affaires
03648354 01

Take this opportunity to comment on Army Clothing and Equipment.

Look Inside!

03648354 -M3M3B9-BR01

OPERATIONAL HUMAN ENGR GROUP
D.C.I.E.M.
PO BOX 42316 STN BRM B
TORONTO ON M7Y 7J1

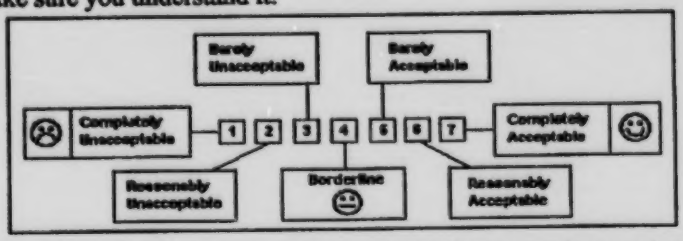
ACCESS

Army Combat Clothing and Equipment Survey System

INSTRUCTIONS

The Canadian Forces is investigating ways of obtaining user feedback on Land Force personal operational clothing and equipment. ACCESS is one tool being used to gather feedback and information. The resulting user input will be vital in aiding decision-making in development, procurement and life-cycle management.

Your personal responses to this questionnaire are very important in helping to evaluate the performance of items of Army combat clothing and equipment. Your answers will help to identify those items that require further investigation. Your individual answers will be kept strictly confidential. There are 22 items of clothing and equipment for which you will be asked to provide a rating response on a seven-point scale. An example of the seven-point scale is shown below. Take a moment to look at the scale to make sure you understand it.



In addition to rating the acceptability of various items, you will be asked to list items that you believe to be the worst and the best of the in-service clothing and equipment. Remember that this is your opportunity to provide your assessment of the performance of Army combat clothing and equipment items.

PERSONAL INFORMATION

Please provide the requested information in the spaces provided:

Unit	Component	
	Regular Force ○	Reserve Force ○
	Other ○ _____	

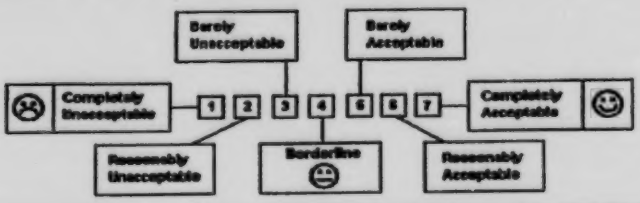
Rank				Sex	
Private ○	Junior NCM ○	Senior NCM ○	Officer ○	Male ○	Female ○

Length of Adult Service			
0 – 1 Year ○	1 – 5 Years ○	5 – 10 Years ○	Over 10 Years ○

Operational Experience (By Theatre)					
Middle East ○	Golan Heights ○	Sinai ○	Croatia ○	Bosnia ○	Rwanda ○
Cyprus ○	Cambodia ○	Somalia ○	Haiti ○	Other ○ _____	

Height	Weight (lbs)	MOC
☐☐ Feet ☐☐ Inches	☐☐☐	☐☐☐☐

1. **Fill in the circle corresponding to the rating best describing your answer.**
2. **Fill only one circle per item. If you make an error, circle the correct mark.**
3. **If you have never worn or used an item, fill in the circle next to the "Not Worn" comment and do not complete the seven-point rating.**



New CF Helmet

Not Worn ○

Combat Jacket

Not Worn ○

Rain Jacket

Not Worn ○

IECS Jacket - UNPROFOR

Not Worn ○

IECS Fleece Top - UNPROFOR

Not Worn ○

IECS Parka - UNPROFOR

Not Worn ○

Combat Glove (Inner)

Not Worn ○

Combat Glove (Outer)

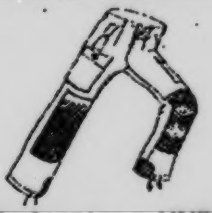
Not Worn ○

Combat Trousers

Not Worn ○

IECS Fleece Pants - UNPROFOR

Not Worn ○



IECS Windpants - UNPROFOR

Not Worn

Long Underwear

Not Worn

Socks, MVP

Not Worn

Gray Socks

Not Worn

Combat Boot (GS Mk III)

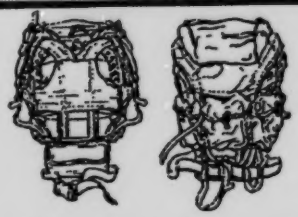
Not Worn

H.H. Brown Prospector Boots - UNPROFOR

Not Worn

Webbing, 1982 Pattern

Not Worn



Rucksack, 1982 Pattern

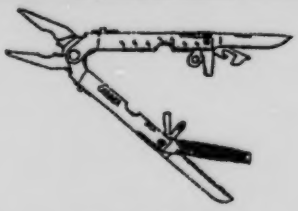
Not Worn

NBC C4 Mask Carrier

Not Worn

Load Carriage Vest - UNPROFOR

Not Worn



Multi Tool

Not Worn

Combat Cap

Not Worn

Worst Items of Clothing and Equipment

List up to three items that you believe are the WORST of in-service clothing and equipment. These may consist of items not included in this questionnaire.

1. _____
2. _____
3. _____

Best Items of Clothing and Equipment

List up to three items that you believe are the BEST of in-service clothing and equipment. These may consist of items not included in this questionnaire.

1. _____
2. _____
3. _____

Comments

Please provide any comments regarding the performance and acceptability of items of Army combat clothing and equipment. As well, feel free to provide comments regarding the completion of this questionnaire. Your comments are encouraged and will be valuable to the success of this questionnaire.

_____

_____

_____

_____

_____

Thank you for completing this questionnaire.

Look in future issues of ***The Garrison*** for questionnaire results and feedback.

INSTRUCTIONS FOR SUBMISSION

Fold the questionnaire in half and place it into the envelope provided. Seal and mail the envelope. No postage is necessary if mailed from within Canada.

ANNEX B

ACCESS
DETAILED QUESTIONNAIRES &
QUESTIONNAIRE EVALUATION FORM

ACCESS

Army Combat Clothing and Equipment Survey System

Welcome to the **ACCESS** questionnaire!

ACCESS gathers feedback and information regarding Land Force personal operational clothing and equipment. Feedback will be vital in aiding decision-making in development, procurement and life-cycle management.

Your personal responses to this questionnaire are very important in helping to evaluate the performance of Army combat clothing and equipment. Your answers will help to identify features that require further investigation.

Your answers will be kept strictly confidential.

There are 5 items of clothing and equipment for which you will be asked to provide rating responses. This is your opportunity to provide an assessment of the performance and acceptability of Army combat clothing and equipment.

In addition to rating the acceptability of various items, you will be asked to supply an evaluation of the questionnaires themselves. This will help to improve the design of the questionnaires and indicate clothing and equipment to investigate in the future.

Thank-you for taking part in **ACCESS**!

INSTRUCTIONS

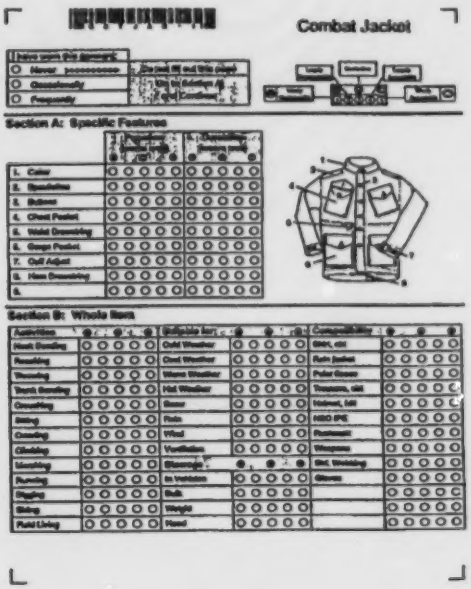
1. Remove contents from the envelope.
2. Read instructions, "How to Fill Out the ACCESS Questionnaire."
3. Complete Questionnaires.
4. Complete Questionnaire Evaluation (yellow paper).
5. Place contents into the envelope.
6. Seal Envelope.
7. Return Envelope to the Training Officer

How to Fill Out the ACCESS Questionnaire

How the ACCESS Questionnaire is Organized

- There are 5 items for you to assess; 1982 Pattern Webbing, New CF Helmet, Rain Jacket, Multi Tool, and the NBC C4 Mask Carrier.
- There are 2 to 3 pages for each item.
- Each page is divided into sections.
- In each section, there are questions about different aspects of the item and how it performs.
- Definitions of terms used on the questionnaire are listed on the definitions page which follows.

Sections



Answer the "I have worn this garment:" question first. Indicate how often you have worn the garment.
If you have never worn this item, do not complete the pages for this item.

SECTION: Specific Features

Rate the item, feature by feature, in terms of function and durability.

SECTION: Whole Item

Rate the item as a whole, in terms of the items listed in each category.

SECTION: Fit

Rate the item for each of the fitting categories listed.

SECTION: Overall Ratings

Provide an overall rating of the item as a whole with respect to appearance, function, durability, etc.

SECTION: Size Issued

Indicate the size of the item you were issued.

SECTION: Replacement Items

Indicate if you purchase a replacement item for this garment. Provide a brand name or description of the commercial item.

SECTION: Sizing

Indicate if a measurement template was used to determine your size.

SECTION: Manual

Indicate if an instruction manual was issued to you with the item. Indicate if you read the manual.

SECTION: Shooting Eye

Indicate the eye that you use to shoot the C7 Rifle

SECTION: Damaged Parts

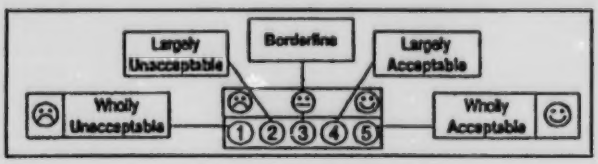
Indicate if parts of the item have been damaged. Indicate which parts were damaged and the cause of the damage.

SECTION: Comments

Write any comments you may have concerning good and bad points, improvements etc.

Using the scale

Take a moment to look at this scale and make sure you understand it.



Please follow these simple rules!

- Fill only one circle per question
- If you make an error, circle the correct mark
- If any questions do not apply to you, strike through the wording. For example, if you haven't experienced snow, strike out the word snow. Do not strike out the circles.

Remember:

- In the comments section, don't worry about spelling. This is not a test. We want your ideas.
- Answer every question. Strike through the words that do not apply.
- There are no "correct" answers. We want your honest opinion, not your friends.

Definitions of Terms Used in the ACCESS Questionnaire

Activities	Does the item interfere with the named activity in any way?
Adjustment	Is the item easy to adjust?
Appearance	Does the item look good?
Care	Is it easy to keep the item looking good?
Climate	Does the garment keep you comfortable during these temperatures: Cold: Below -5 C Cool: -5 C to 10 C Warm: 11 C to 25 C Hot: Over 25 C
Compatibility	Does the item work and fit well when used with other garments, weapons or equipment?
Dexterity	Did the gloves hinder the use of your hands?
Durability	How long does the item (or feature) last?
Fit	Does the item fit you?
Function	Does the item (or feature) work well?

Frequently	Do you wear the item on a regular basis?
Layering	How was fit affected by layering the item?
Maintenance	Is the item (or feature) easy to repair and clean?
Movement	Is your movement restricted in any way?
NBC IPE	Integrated protection ensemble. e.g. NBC Suit, respirator, gloves, overboots.
Occasionally	Do you wear the item on an irregular or infrequent basis?
Stability	Does the item remain in its correct position during activity or vigorous movement?
Stowage	Is the item easy to stow in vehicles or in your webbing?
Traction	Does the item provide adequate friction on all surfaces?
Ventilation	Can you reduce heat buildup by opening the garment (i.e. Venting)

Personal Information

Please provide the requested information in the spaces provided:

Unit	MOC

Rank

Private O Junior NCM O Senior NCM O Officer O

Sex

Male O Female O

Component

Regular Force O Reserve Force O Other O _____

Length of Adult Service

0 - 1 Year O 1 - 5 Years O 5 - 10 Years O Over 10 Years O

Operational Experience (By Theatre)

Middle East O Golan Heights O Sinai O Croatia O Bosnia O Rwanda O Cyprus O

Somalia O Cambodia O Haiti O Other O _____

Height (Feet/Inches)

<5'1	5'1	5'2	5'3	5'4	5'5	5'6	5'7	5'8	5'9	5'10	5'11	6'0	6'1	6'2	6'3	6'4	6'5	>6'5
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

Weight (Pounds)

<130	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	>210
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

Chest Circumference (Inches)

<34	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	>50
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

Waist Circumference (Inches)

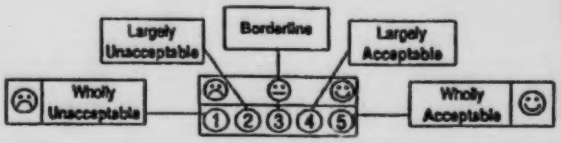
<24	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	>40
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

W B 1

PROTECTED A (when completed)

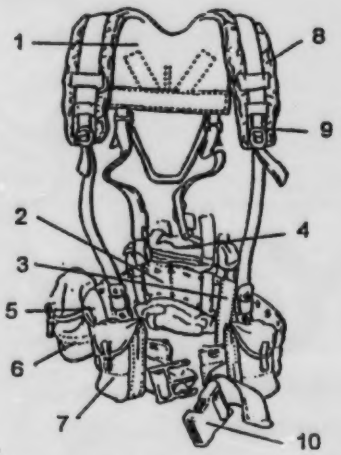
Webbing, 1982 Pattern

I have worn this item:	
○ Never >>>>>>>>>>	Do not fill out this item
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well)	Durability (wears well)
1. Yoke Straps	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Utility Belt	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Bayonet Holder	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Small Field Pack	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. KFS Carrier	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Canteen Carrier	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Magazine Pouch	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8. Shoulder Straps	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9. Strap Adjusters	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10. Belt Connector	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

Activities		Suitable for		Compatibility	
Reaching	○ ○ ○ ○ ○	Cold Weather	○ ○ ○ ○ ○	Undershirt	○ ○ ○ ○ ○
Throwing	○ ○ ○ ○ ○	Cool Weather	○ ○ ○ ○ ○	Combat shirt	○ ○ ○ ○ ○
Trunk Bending	○ ○ ○ ○ ○	Warm Weather	○ ○ ○ ○ ○	Combat jacket	○ ○ ○ ○ ○
Crouching	○ ○ ○ ○ ○	Hot Weather	○ ○ ○ ○ ○	Trousers, cbt	○ ○ ○ ○ ○
Sitting	○ ○ ○ ○ ○	Snow	○ ○ ○ ○ ○	Helmet, M1	○ ○ ○ ○ ○
Crawling	○ ○ ○ ○ ○	Rain	○ ○ ○ ○ ○	Parka	○ ○ ○ ○ ○
Climbing	○ ○ ○ ○ ○	Wind	○ ○ ○ ○ ○	NBC garment	○ ○ ○ ○ ○
Marching	○ ○ ○ ○ ○	Ventilation	○ ○ ○ ○ ○	Weapons	○ ○ ○ ○ ○
Running	○ ○ ○ ○ ○	**Stowage**		Frag Vest	○ ○ ○ ○ ○
Digging	○ ○ ○ ○ ○	In Vehicles	○ ○ ○ ○ ○	Rucksack	○ ○ ○ ○ ○
Skiing	○ ○ ○ ○ ○	Bulk	○ ○ ○ ○ ○		○ ○ ○ ○ ○
Field Living	○ ○ ○ ○ ○	Weight	○ ○ ○ ○ ○		○ ○ ○ ○ ○
	○ ○ ○ ○ ○		○ ○ ○ ○ ○		○ ○ ○ ○ ○

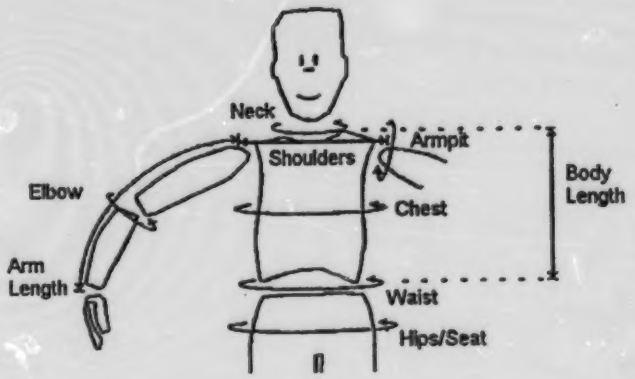
Webbing, 1982 Pattern

Section B: Whole Item (Continued)

Durability		Adjustment		Other	
Tears	○ ○ ○ ○ ○	Put on	○ ○ ○ ○ ○	Colour	○ ○ ○ ○ ○
Wear	○ ○ ○ ○ ○	Adjust fit	○ ○ ○ ○ ○	Noise	○ ○ ○ ○ ○
Snagging	○ ○ ○ ○ ○	Take off	○ ○ ○ ○ ○	Smell	○ ○ ○ ○ ○
Stitching	○ ○ ○ ○ ○		○ ○ ○ ○ ○	Layering	○ ○ ○ ○ ○
Stains	○ ○ ○ ○ ○		○ ○ ○ ○ ○		○ ○ ○ ○ ○
	○ ○ ○ ○ ○		○ ○ ○ ○ ○		○ ○ ○ ○ ○
Care		**Vehicles**		**Comfort**	
Washing	○ ○ ○ ○ ○	Entry	○ ○ ○ ○ ○	Neck	○ ○ ○ ○ ○
Drying	○ ○ ○ ○ ○	Exit	○ ○ ○ ○ ○	Shoulders	○ ○ ○ ○ ○
Repairs	○ ○ ○ ○ ○	Operation	○ ○ ○ ○ ○	Chest	○ ○ ○ ○ ○
Brushing	○ ○ ○ ○ ○	Maintenance	○ ○ ○ ○ ○	Armpits	○ ○ ○ ○ ○
	○ ○ ○ ○ ○		○ ○ ○ ○ ○	Waist	○ ○ ○ ○ ○

Section C: Fit

	too small	OK	too big
Neck	○	○	○
Shoulders	○	○	○
Chest	○	○	○
Waist	○	○	○
Body Length	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○
	○	○	○



Section D: Overall Ratings

Appearance	○ ○ ○ ○ ○	Function	○ ○ ○ ○ ○	Durability	○ ○ ○ ○ ○

Webbing, 1982 Pattern

Section E: Size Issued

What size webbing belt were you issued?

Small	Medium	Large
○	○	○

Section F: Replacement Items

	Yes	No
Are you buying replacement items for this piece of kit?	○	○

Please provide the name brand or description of the replacement item:

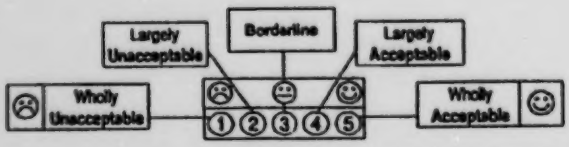
Section G: Comments

H L M T - 1

PROTECTED A (when completed)

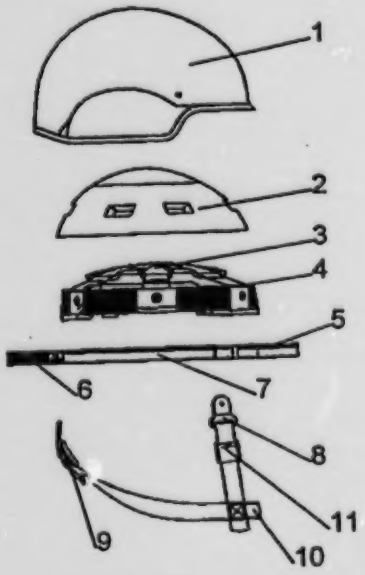
New CF Helmet

I have worn this garment:	
○ Never >>>>>>>>>>	Do not fill out this page
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well)	Durability (wears well)
1. Shell	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Trauma Liner	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Crown Tie Cord	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Suspension System	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Headband	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Headband Velcro	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. NBC Adjustment Velcro	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8. Retention System	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9. Retention Adjustment	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10. Chin Cup	○ ○ ○ ○ ○	○ ○ ○ ○ ○
11. Chinstrap Buckle	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

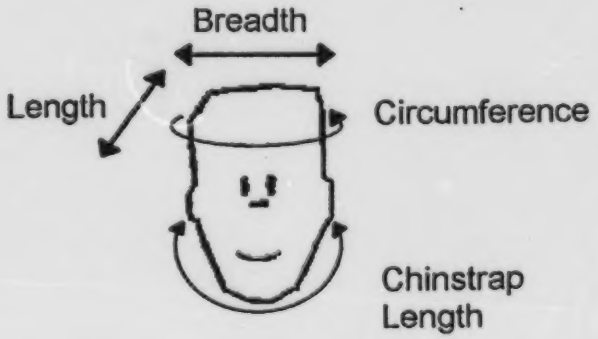
Activity		Suitable for:		Durability	
Neck Bending	○ ○ ○ ○ ○	Cold Weather	○ ○ ○ ○ ○	Denting	○ ○ ○ ○ ○
Rifle Firing	○ ○ ○ ○ ○	Cool Weather	○ ○ ○ ○ ○	Wear	○ ○ ○ ○ ○
Driving	○ ○ ○ ○ ○	Warm Weather	○ ○ ○ ○ ○	Snagging	○ ○ ○ ○ ○
SRAAW Firing	○ ○ ○ ○ ○	Hot Weather	○ ○ ○ ○ ○	Paint Chipping	○ ○ ○ ○ ○
MG Firing	○ ○ ○ ○ ○	Snow	○ ○ ○ ○ ○	Stains	○ ○ ○ ○ ○
Throwing	○ ○ ○ ○ ○	Rain	○ ○ ○ ○ ○		○ ○ ○ ○ ○
Crawling	○ ○ ○ ○ ○	Wind	○ ○ ○ ○ ○	**Care**	
Climbing	○ ○ ○ ○ ○	Ventilation	○ ○ ○ ○ ○	Repairs	○ ○ ○ ○ ○
Marching	○ ○ ○ ○ ○	**Stowage**		Cleaning	○ ○ ○ ○ ○
Running	○ ○ ○ ○ ○	In Vehicles	○ ○ ○ ○ ○		○ ○ ○ ○ ○
Digging	○ ○ ○ ○ ○	Bulk in Pack	○ ○ ○ ○ ○		○ ○ ○ ○ ○
	○ ○ ○ ○ ○	Weight in Pack	○ ○ ○ ○ ○		○ ○ ○ ○ ○

Section B: Whole Item (Continued)

Compatibility	☹	😐	☺	Adjustment	☹	😐	☺	Other:	☹	😐	☺
Frag. Vest	O	O	O	Put on	O	O	O	Colour	O	O	O
Rain jacket	O	O	O	Adjust fit	O	O	O	Noise	O	O	O
Goggles	O	O	O	Take off	O	O	O	Stability	O	O	O
Face mask	O	O	O		O	O	O	Ease of Movmnt.	O	O	O
Toque	O	O	O		O	O	O		O	O	O
Balaclava	O	O	O		O	O	O		O	O	O
C4 Mask	O	O	O	**Vehicles**	☹	😐	☺	**Comfort**	☹	😐	☺
Rucksack	O	O	O	Entry	O	O	O	Suspension	O	O	O
Hoods	O	O	O	Exit	O	O	O	Headband	O	O	O
Gloves, Cbt.	O	O	O	Operation	O	O	O	Chinstrap	O	O	O
C9 LMG	O	O	O	Maintenance	O	O	O	Weight on Head	O	O	O
C7 Rifle	O	O	O		O	O	O		O	O	O
M72	O	O	O		O	O	O		O	O	O
Carl Gustav	O	O	O		O	O	O		O	O	O
Binoculars	O	O	O		O	O	O		O	O	O
Headsets	O	O	O		O	O	O		O	O	O
Handsets	O	O	O		O	O	O		O	O	O

Section C: Fit

	too small	OK	too big
Head Breadth	O	O	O
Head Length	O	O	O
Head Circumference	O	O	O
Chinstrap Length	O	O	O
Height above Head	O	O	O
Clearance from Head	O	O	O
Coverage of Head	O	O	O
	O	O	O



New CF Helmet

Section D: Overall Ratings

Appearance	O O O O O	Function	O O O O O	Durability	O O O O O
Protection	O O O O O	Physical Comfort	O O O O O	Thermal Comfort	O O O O O
Activities	O O O O O				

Section E: Size Issued

Small	Medium	Large
O	O	O

Section F: Sizing

Was a template (i.e. cardboard cutout) used to determine your helmet size?

Yes	No
O	O

Section G: Manual

Was a manual issued to you when you received your helmet?

Yes	No
O	O

If "Yes," did you read the manual?

Yes	No
O	O

Section H: Shooting Eye

Left	Right
O	O

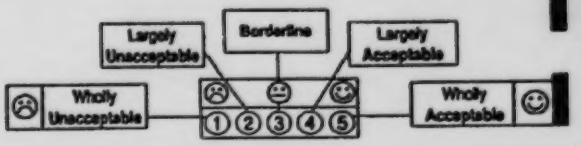
Section I: Comments

R N J K T 1

PROTECTED A (when completed)

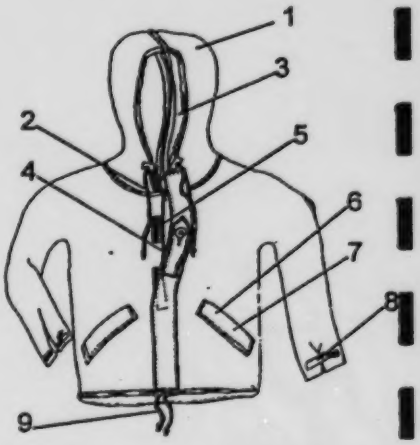
Rain Jacket

I have worn this garment	
○ Never >>>>>>>>>>	Do not fill out this page
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well) ☹ ☺	Durability (wears well) ☹ ☺
1. Hood	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Hood Drawstring	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Hood Velcro Adjustment	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Zipper	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Velcro Front Closures	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Pocket Pass-Through	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Velcro Pocket Closures	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8. Cuff Adjustment	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9. Hem Drawstring	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

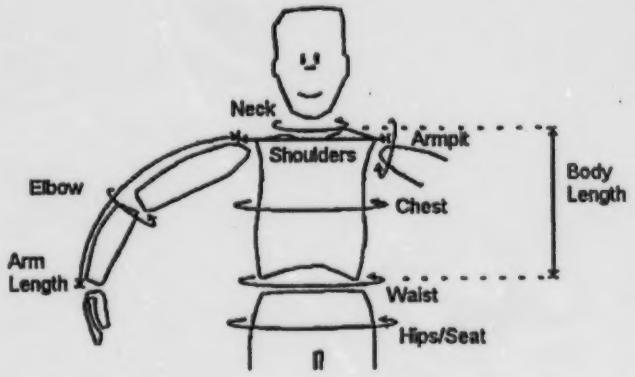
Activities ☹ ☺		Suitable for: ☹ ☺		Compatibility ☹ ☺	
Neck Bending	○ ○ ○ ○ ○	Cold Weather	○ ○ ○ ○ ○	Jacket, Cbt.	○ ○ ○ ○ ○
Reaching	○ ○ ○ ○ ○	Cool Weather	○ ○ ○ ○ ○	Polar Fleece	○ ○ ○ ○ ○
Throwing	○ ○ ○ ○ ○	Warm Weather	○ ○ ○ ○ ○	Trousers, Cbt.	○ ○ ○ ○ ○
Trunk Bending	○ ○ ○ ○ ○	Hot Weather	○ ○ ○ ○ ○	Rain Pants	○ ○ ○ ○ ○
Crouching	○ ○ ○ ○ ○	Snow	○ ○ ○ ○ ○	Helmet, M1	○ ○ ○ ○ ○
Sitting	○ ○ ○ ○ ○	Rain	○ ○ ○ ○ ○	New CF Helmet	○ ○ ○ ○ ○
Crawling	○ ○ ○ ○ ○	Wind	○ ○ ○ ○ ○	NBC IPE	○ ○ ○ ○ ○
Climbing	○ ○ ○ ○ ○	Ventilation	○ ○ ○ ○ ○	Rucksack	○ ○ ○ ○ ○
Marching	○ ○ ○ ○ ○	**Stowage ☹ ☺**		C7 Rifle	○ ○ ○ ○ ○
Running	○ ○ ○ ○ ○	In Vehicles	○ ○ ○ ○ ○	SRAAW	○ ○ ○ ○ ○
Digging	○ ○ ○ ○ ○	Bulk in Pack	○ ○ ○ ○ ○	Std. Webbing	○ ○ ○ ○ ○
Field Living	○ ○ ○ ○ ○	Weight in Pack	○ ○ ○ ○ ○	Gloves, Cbt.	○ ○ ○ ○ ○
	○ ○ ○ ○ ○		○ ○ ○ ○ ○	Headsets	○ ○ ○ ○ ○
	○ ○ ○ ○ ○		○ ○ ○ ○ ○	Frag. Vest	○ ○ ○ ○ ○

Section B: Whole Item (Continued)

Durability	☹	😐	☺	Adjustment	☹	😐	☺	Other:	☹	😐	☺
Tears	○	○	○	Put on	○	○	○	Colour	○	○	○
Wear	○	○	○	Adjust fit	○	○	○	Noise	○	○	○
Snagging	○	○	○	Take off	○	○	○	Smell	○	○	○
Stitching	○	○	○		○	○	○	Layering	○	○	○
Stains	○	○	○		○	○	○	Insect Resistance	○	○	○
Cracking	○	○	○		○	○	○	Ease of Mvmnt.	○	○	○
Care	☹	😐	☺	**Vehicles**	☹	😐	☺	Weight on Body	○	○	○
Cleaning	○	○	○	Entry	○	○	○		○	○	○
Drying	○	○	○	Exit	○	○	○		○	○	○
Repairs	○	○	○	Operation	○	○	○		○	○	○
	○	○	○	Maintenance	○	○	○		○	○	○
	○	○	○		○	○	○		○	○	○

Section C: Fit

	too small	OK	too big
Neck	○	○	○
Shoulders	○	○	○
Chest	○	○	○
Waist	○	○	○
Seat	○	○	○
Body Length	○	○	○
Armpit	○	○	○
Elbow	○	○	○
Wrist	○	○	○
Arm Length	○	○	○



Section D: Overall Ratings

Appearance	○	○	○	○	○	Function	○	○	○	○	○	Durability	○	○	○	○	○
Rain Protection	○	○	○	○	○	Physical Comfort	○	○	○	○	○	Thermal Comfort	○	○	○	○	○

Section E: Size Issued

Short	Regular	Tall	Extra Tall
O	O	O	O

Section F: Replacement Items

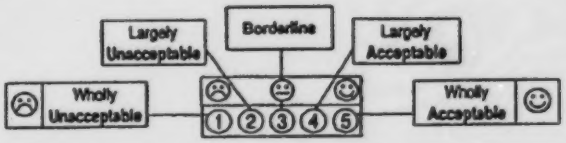
	Yes	No
Are you buying replacement items for this piece of kit?	O	O

Please provide the name brand or description of the replacement item:

Section G: Comments

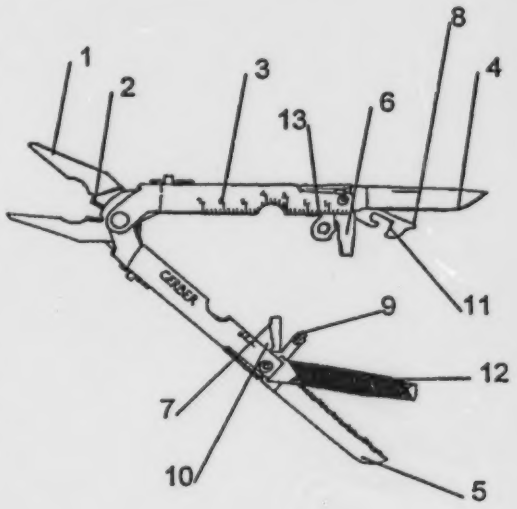
Multi Tool

I have worn this garment:	
○ Never >>>>>>>>>>	Do not fill out this page.
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well) ☹ 1 2 3 4 5 ☺	Durability (wears well) ☹ 1 2 3 4 5 ☺
1. Pliers	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Wire Cutters	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Ruler	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Straight Blade	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Fully Serrated Blade	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Large Screwdriver	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Medium Screwdriver	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8. Small Screwdriver	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9. Phillips Screwdriver	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10. Bottle Opener	○ ○ ○ ○ ○	○ ○ ○ ○ ○
11. Can Opener	○ ○ ○ ○ ○	○ ○ ○ ○ ○
12. File	○ ○ ○ ○ ○	○ ○ ○ ○ ○
13. Lanyard Eyelet	○ ○ ○ ○ ○	○ ○ ○ ○ ○
14. Sheath (Case)	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

Stowage ☹ 1 2 3 4 5 ☺		Suitable for: ☹ 1 2 3 4 5 ☺		Compatibility ☹ 1 2 3 4 5 ☺	
On Belt	○ ○ ○ ○ ○	Cold Weather	○ ○ ○ ○ ○	Std. Webbing	○ ○ ○ ○ ○
In Webbing	○ ○ ○ ○ ○	Cool Weather	○ ○ ○ ○ ○	Gloves, Inner	○ ○ ○ ○ ○
In Cbt. Trousers	○ ○ ○ ○ ○	Warm Weather	○ ○ ○ ○ ○	Gloves, Outer	○ ○ ○ ○ ○
In Cbt. Jacket	○ ○ ○ ○ ○	Hot Weather	○ ○ ○ ○ ○	NBC Gloves	○ ○ ○ ○ ○
On Lanyard	○ ○ ○ ○ ○	Snow	○ ○ ○ ○ ○	Arctic Mitts	○ ○ ○ ○ ○
On Suspenders	○ ○ ○ ○ ○	Rain	○ ○ ○ ○ ○	**Care** ☹ 1 2 3 4 5 ☺	
Weight to Carry	○ ○ ○ ○ ○	Wind	○ ○ ○ ○ ○	Cleaning	○ ○ ○ ○ ○
Bulk	○ ○ ○ ○ ○		○ ○ ○ ○ ○	Repairs	○ ○ ○ ○ ○

Section B: Whole Item (Continued)

Durability	☹	😐	🙂	Adjustment	☹	😐	🙂	Others	☹	😐	🙂
Dents	○ ○	○	○ ○	Put into Sheath	○ ○	○	○ ○	Colour	○ ○	○	○ ○
Wear	○ ○	○	○ ○	Remove from Sheath	○ ○	○	○ ○	Physical Comfort	○ ○	○	○ ○
Rusting	○ ○	○	○ ○	Extend Pliers	○ ○	○	○ ○	Noise	○ ○	○	○ ○
Scratching	○ ○	○	○ ○	Retract Pliers	○ ○	○	○ ○	Ease of Use	○ ○	○	○ ○
Bending	○ ○	○	○ ○	Open Tools	○ ○	○	○ ○	Weight	○ ○	○	○ ○
Breakage	○ ○	○	○ ○	Close Tools	○ ○	○	○ ○	Size	○ ○	○	○ ○

Section C: Overall Ratings

Appearance	☹	😐	🙂	Function	☹	😐	🙂	Durability	☹	😐	🙂
Safety	○ ○	○	○ ○								

Section D: Damaged Parts

	YES	NO
Have any of the multi tool parts been damaged?	○	○

If "YES," what parts were damaged and what caused the damage? :

Section E: Replacement Items

	YES	NO
Are you buying replacement items for this piece of kit?	○	○

If "YES," Please provide the name brand or description of the replacement item:

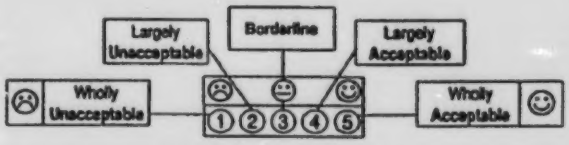
Section F: Comments

C 4 C R 1

PROTECTED A (when completed)

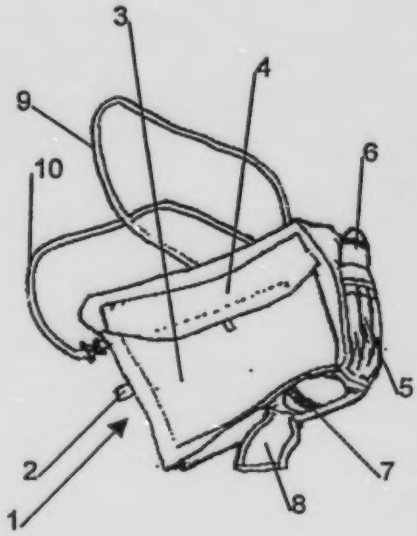
NBC C4 MaskCarrier

I have worn this garment:	
○ Never >>>>>>>>>>	Do not fill out this page
○ Occasionally	Go to Section A and Continue
○ Frequently	



Section A: Specific Features

	Function (works well) ☹ 1 2 3 4 5 ☺	Durability (wears well) ☹ 1 2 3 4 5 ☺
1. Front Opening	○ ○ ○ ○ ○	○ ○ ○ ○ ○
2. Hook & Loop Closure	○ ○ ○ ○ ○	○ ○ ○ ○ ○
3. Exterior Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
4. Exterior Pocket Flap	○ ○ ○ ○ ○	○ ○ ○ ○ ○
5. Rear Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
6. Rear Pocket Flap	○ ○ ○ ○ ○	○ ○ ○ ○ ○
7. Bottom Pocket	○ ○ ○ ○ ○	○ ○ ○ ○ ○
8. Bottom Pocket Flap	○ ○ ○ ○ ○	○ ○ ○ ○ ○
9. Shoulder Strap	○ ○ ○ ○ ○	○ ○ ○ ○ ○
10. Belt	○ ○ ○ ○ ○	○ ○ ○ ○ ○
11. Webbing Belt Attachment	○ ○ ○ ○ ○	○ ○ ○ ○ ○



Section B: Whole Item

Activities ☹ 1 2 3 4 5 ☺		Suitable for: ☹ 1 2 3 4 5 ☺		Durability ☹ 1 2 3 4 5 ☺	
Neck Bending	○ ○ ○ ○ ○	Cold Weather	○ ○ ○ ○ ○	Tears	○ ○ ○ ○ ○
Reaching	○ ○ ○ ○ ○	Cool Weather	○ ○ ○ ○ ○	Wear	○ ○ ○ ○ ○
Throwing	○ ○ ○ ○ ○	Warm Weather	○ ○ ○ ○ ○	Snagging	○ ○ ○ ○ ○
Trunk Bending	○ ○ ○ ○ ○	Hot Weather	○ ○ ○ ○ ○	Stitching	○ ○ ○ ○ ○
Crouching	○ ○ ○ ○ ○	Snow	○ ○ ○ ○ ○	Stains	○ ○ ○ ○ ○
Sitting	○ ○ ○ ○ ○	Rain	○ ○ ○ ○ ○		○ ○ ○ ○ ○
Crawling	○ ○ ○ ○ ○	Wind	○ ○ ○ ○ ○	Care ☹ 1 2 3 4 5 ☺	
Climbing	○ ○ ○ ○ ○	Stowage ☹ 1 2 3 4 5 ☺		Cleaning	○ ○ ○ ○ ○
Marching	○ ○ ○ ○ ○	In Vehicles	○ ○ ○ ○ ○	Repairs	○ ○ ○ ○ ○
Running	○ ○ ○ ○ ○	Bulk in Pack	○ ○ ○ ○ ○	Decontamination	○ ○ ○ ○ ○
Masking Drill	○ ○ ○ ○ ○	Weight in Pack	○ ○ ○ ○ ○		○ ○ ○ ○ ○
Unmasking Drill	○ ○ ○ ○ ○		○ ○ ○ ○ ○		○ ○ ○ ○ ○

NBC C4 MaskCarrier

Section B: Whole Item (Continued)

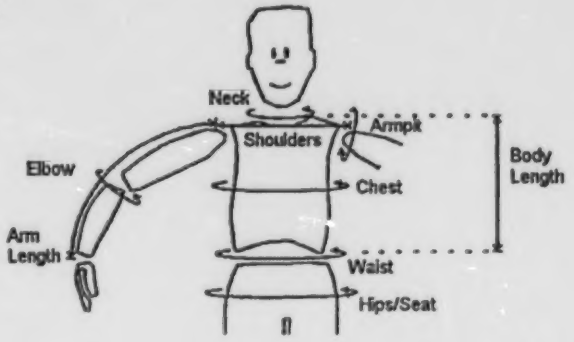
Compatibility	☹	😐			☺
Jacket, Cbt.	○	○	○	○	○
Rain jacket	○	○	○	○	○
Shirt, Cbt.	○	○	○	○	○
Trousers, Cbt	○	○	○	○	○
Helmet, M1	○	○	○	○	○
New CF Helmet	○	○	○	○	○
C7 Rifle	○	○	○	○	○
Std. Webbing	○	○	○	○	○
Frag Vest	○	○	○	○	○
Gloves, Cbt.	○	○	○	○	○
Gloves, NBC	○	○	○	○	○
NBC Coveralls	○	○	○	○	○
C4 Mask	○	○	○	○	○
NBC Hood	○	○	○	○	○
HI6	○	○	○	○	○
Anticonvulsant	○	○	○	○	○
Canister	○	○	○	○	○

Adjustment	☹	😐			☺
Put on	○	○	○	○	○
Adjust fit	○	○	○	○	○
Take off	○	○	○	○	○
Vehicles	☹	😐			☺
Entry	○	○	○	○	○
Exit	○	○	○	○	○
Operation	○	○	○	○	○
Maintenance	○	○	○	○	○
Accessibility	☹	😐			☺
To C4 Mask	○	○	○	○	○
To Canister	○	○	○	○	○
To HI6	○	○	○	○	○
To Anticonvulsant	○	○	○	○	○
To Exterior Pocket	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○

Other:	☹	😐			☺
Colour	○	○	○	○	○
Noise	○	○	○	○	○
Smell	○	○	○	○	○
Layering	○	○	○	○	○
Stability	○	○	○	○	○
Ease of Mvmnt.	○	○	○	○	○
Comfort	☹	😐			☺
Shoulders	○	○	○	○	○
Chest	○	○	○	○	○
Waist	○	○	○	○	○
Hip	○	○	○	○	○
Weight on Body	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○
	○	○	○	○	○

Section C: Fit

	too small	OK	too big
Shoulders	○	○	○
Chest	○	○	○
Waist	○	○	○
Body Length	○	○	○
Hips/Seat	○	○	○
	○	○	○
	○	○	○
	○	○	○



Section D: Overall Ratings

Appearance	O O O O O	Function	O O O O O	Durability	O O O O O
Physical Comfort	O O O O O				

Section E: Comments

QEVAL

PROTECTED A (when completed)

ACCESS Questionnaire Evaluation

To help improve the design and distribution of future ACCESS questionnaires, please complete the following evaluation.

Overall Impressions

Rate your overall impressions of the questionnaire, by agreeing or disagreeing with the statements below.

	Strongly Disagree 1	2	Borderline 3	4	Strongly Agree 5
1. I found the questionnaire easy to understand.	O	O	O	O	O
2. The questionnaire was easy to complete.	O	O	O	O	O
3. I was able to indicate all my concerns with this questionnaire alone.	O	O	O	O	O
4. The rating scale was easy to use.	O	O	O	O	O
5. I am confident that I know my height.	O	O	O	O	O
6. I am confident that I know my weight.	O	O	O	O	O
7. I am confident that I know my chest size.	O	O	O	O	O
8. I am confident that I know my waist size.	O	O	O	O	O
9. I had sufficient space to write all my comments.	O	O	O	O	O
10. The drawings of each item clearly indicated all important features.	O	O	O	O	O
11. I fully understood all of the terms used in the questionnaire.	O	O	O	O	O
12. I believe a thorough briefing is required with this questionnaire.	O	O	O	O	O
13. I know the sizes of all items of my kit.	O	O	O	O	O
14. The questionnaire instructions were clear.	O	O	O	O	O
15. I am familiar with the current UCR system.	O	O	O	O	O
16. I am satisfied with only providing my comments using the UCR system.	O	O	O	O	O
17. I had sufficient time to complete the questionnaire.	O	O	O	O	O
18. I want an annual soldier feedback questionnaire for clothing & equipment.	O	O	O	O	O
19. I would complete additional questionnaires in the future.	O	O	O	O	O

Future Research

What clothing and equipment items should be evaluated next?

1. _____
2. _____
3. _____

Thank-you for completing this evaluation!

ANNEX C

ACCESS RESULTS

NEWSPAPER INSERT SURVEY DESCRIPTIVE STATISTICS

ACCESS Results: Newspaper Insert

Item	mean / s.d. 1 2 3 4 5 6 7	% unacceptability 25 50 75	n	% not worn
Rucksack, 1982 Pattern			381	1.0
Combat Glove (Outer)			375	2.8
Combat Cap			362	6.2
Combat Jacket			377	2.3
Combat Boot (GS MKIII)			374	3.1
Gray Socks			375	2.8
Combat Glove (Inner)			381	1.3
Long Underwear			365	5.2
Webbing, 1982 Pattern			383	0.8
Rain Jacket			376	2.6
HH Brown Prospector Boots - UNPROFOR			184	52.2
NBC C4 Mask Carrier			360	6.7
Load Carriage Vest – UNPROFOR			202	47.5
Multi Tool			347	10.1
Socks, MVP			267	30.7
Combat Trousers			375	2.8
IECS Jacket - UNPROFOR			180	53.2
IECS Windpants – UNPROFOR			177	54.0
New CF Helmet			327	14.2
IECS Parka – UNPROFOR			177	53.7
IECS Fleece Top – UNPROFOR			200	47.8
IECS Fleece Pants - UNPROFOR			167	56.1

ACCESS Results: Newspaper Insert

WORST ITEMS			BEST ITEMS		
Item	n	%	Item	n	%
1. Rucksack	159	41	1. Bivi Bag	104	27
2. Boots, Cbt	147	38	2. IECS Jacket	96	25
3. Jacket, Cbt	134	35	3. IECS Shirt/Pants (fleece)	92	24
4. Glove, Cbt	117	30	4. Helmet, New	52	13
5. Cap, Cbt	63	16	5. Boots, Goretex	49	13
6. Rain Gear (jacket, pants)	59	15	6. Multitool	42	11
7. Webbing	53	14	7. Socks, Goretex	42	11
8. Socks, Wool	51	13	8. LCV	39	10
9. Underwear, Long	37	10	9. Pants, Cbt	32	8
10. Sweater	21	5	10. Sleeping Bag	32	8

Comments (ACCESS Newspaper Insert)

Q. Please provide any comments regarding the performance and acceptability of items of Army Combat Clothing and Equipment. As well, feel free to provide comments regarding the completion of this questionnaire. Your comments are encouraged and will be valuable to the success of this questionnaire.

winter gear ok but needs modernization, warmer and lighter items; every soldier should have own body armour; gentex crew helmets should be available for all AFV crew pers
cbt boots are worst item as they are hard on your knees, hips and back, the sole is too hard and they are very cold in the fall; there must be a more modern boot that is not so heavy; cbt gloves/liners probably did good in "Korea" but there is definitely better out there; keep the gortex bivi bag - job well done
scale of issue for pres is inadequate for soldiers who have 2 or more years in they should receive same as Reg F. Grey socks are not acceptable with the types of sock out on market (shrink and deteriorate); look at the troops, see what non-auth kit is worn for ideas as to which way CF should proceed
new clothing is suppose to be on its way, are we as soldiers going to go through same problems we face today, which is a low quantity and constantly being told "sorry we don't that item in stock"?
cbt boots are long overdue to replacement with a good lightweight boot with a viabrant sole!
on right track re-equipping soldier with modern fabrics and designs, why do our soldiers still look fwd to visiting american PX? How many still buy their own boots, gloves, bags, etc - because our kit has been substandard and in the case of new eqpt and clothing, unavailable to the avg field soldier, airmen and sailors have new army kit before BOE units in Canada
instead of buying clothing and eqpt that is going to break or wear out faster than the system can resupply, buy something for once that will last, don't change tests to suit the vehicle or eqpt, buy something that's trust worthy, that way we don't have to worry about being dead. PS - how about new kit for the troops in Canada to be issued out
rain jacket needs ventilation, great wind breaker; cbts good when new but suck because must be worn 70% before can be exchanged; cbt boots to heavy and tell me the difference between running and shuffling; sleeping bag ok but needs replacing; rucksack has to be lined with garbage bag
new generation of clothing is an improvement, however until the entire army is outfitted it is useless to people not deployed. Give us a decent glove for wet weather (the Brits have a good pair)
grey wool socks shrink when washed and wear out prematurely, Work Warehouse grey woolblend socks last about 4 times longers and don't shrink; cbt jacket restricts movement, is clumsy and isn't warm; cbt field cap looks like a diseased foreskin on your head
field cap is uncomfortable and does not properly ventilate the heat from head, it causes me to overheat therefore I am always taking it off, if I had the choice I wouldn't wear it; the wool toque is very itchy I think that fleece toques should be in issue; cbt pants wearout way too frequently, for me in the upper thigh in the front
most of kit that is of any good ues is bought and is not in-service like - US raincoat liner, old rucksack, boots with softer soles
rainsuit should be gortex
rucksack - internal and removable frame; boots - summer weight; cbt uniform - summer/winter; webbing gone - load bearing vest; auto focus nods (not fixed focus) ie. Sony handicam
new environmental clothing is very acceptable however only entitled to it while on Op Depl, very de-moralizing to come back to Can and trg in sub-standard kit, in miserable conditions, after having the new kit, lcv is excellent and far superior to webbing which bounces around and is cumbersome; also CF cbt boot while durable is hard on the knees, ankles, etc., because of a lack of cushion in the sole. Soldiers at their own expense have placed the Vibra soles on the boots which is very effective
new lcv needs stronger pockets and the main body of it should be made of a mesh so that it can breathe
cbt clothing should be cam pattern, better boot dry and wet weather, replace field cap with ball cap type, replace combat jacket with lecs jacket for regular issue
need gortex gloves; need lecs jacket not old combat jacket; need new equipment that we are using in Bosnia
cbt jacket - seldom worn by field troops go lecs; rucksack 82 - too flimsy; combat cap - useless, falls off, go to US style bush cap; fleece top and bottom and lecs jacket should be in general issue to combat arms trades; replace web gear with load bearing vest; update raingear with something waterproof and breatheable
concept of questionnaire is excellent idea however, maybe next time a less ambiguous description than "barely unacceptable" and "reasonable unacceptable" could be used. "Reasonably Unaccpetalbe!?" Bring back IPE bag or comparable pack, bring back iron sight on C7, it was unbreakable, accurate to the effective battle range and reliable
rucksack does not fit short people no matter how much you play with it, combat shirt does not allow you to employ the loose layering concept
combat shirt and pants don't stand up to the wear and tear of our trade (oil, grease) material wears out/fades after 6 months use

lecs clothing is issued for op tours, however I don't really need it as much there as I would on a winter ex in wainwright. The concept of lecs is great but like most of out eqpt the quality and design could use vast improvement. Ask infantrymen whats needed and but it. Also, why am I standing in a trench at -40 degrees in the same parka my dad wore 30 yrs ago and some air force tech stands besdie a runway in Edmonton in a blue gortex jacket?
all clothing and equipment for the individual soldier must be tested by an infantryman unit and receive favourable consensus before being adopted, also, issue Danner Ft Lewis Boots
rucksack cannot carry anything (relatively), won't stand up without sleeping bag; sleeping bag system inappropriate for 7 months of the year, many soldiers have fleece liners purchased, bags too bulky and expensive, do not launder well. Suggest fleece liner, artificial fill 2 season bag, bivi bag - second down bag for extreme cold only
new helmet good enough but doesn't cover ears, plastic parts of webbing are too brittle, otherwise good; combat clothing judged excellent, many pockets best attribute, fairly long wearing, grey socks appear to be less durable than before
cbt boot is unacceptable because it does not allow your feet to breathe whil e on long marches, no cushioning soles to help protect the knees while running, when the boot becomes wet it takes a long time to dry, soles are extremely dangerous on ice or cold floors
it appears that the quality and size of combat clothing has been steadily decreasing, for someone who is over 6' tal, the extra tall sizes do not go far enough, having your pant legs never reach the boot looks unprofessional and is constantly annoying
need gortex outer garments; better lighter sleeping bag; need fleece
the helmet used in Bosnia, styled more like american, was and is far better than this new one, get rid of the field cap and go with a cap similar to the US or even the Aussies, this would probably improve morale somewhat
current combat jacket and parka are too bulky, especially the liners; army should issue mini mag lights; current rainwear is not breatheable - you get more soaked from sweat than anything; army needs combat boots with cushioning
for most part, kit and clothing acceptable but times and technology is changing and I feel that our winter clothing could use improvement. There are products on the market that offer better insulation than what we use right now, troops that are comfortable perform their tasks better
rucksack is inadequate for women, women are built differently it puts all the weight on the lower back, because it does not fit properly. The cbt jacket and liner do not keep you warm it just adds bulk to your body. Cbt gloves do a terrible job of keeping you warm
wool socks should last more than 2 months, current cbt boots are fine for garrison but do not keep feet dry and become extremely heavy when wet, troops should be issued something other than a garbage bag to keep equipment dry inside rucksacks and valises., new gloves should also be issued so that hands may stay dry and warm. Why was the combat shirt not on this survey?
should have different sizes of sleeping bags, I havae very wide shoulders and find it very uncomfortable, the combat boots are in bad need of replacement, spend the money on good boots, not on medical pensions for knees
although I have worn th elecs clothing it was with SFOR not UNPROFOR, the gerber is good but the model with the locking blade would be better
provide a fall winter fleece gortex cap; providea summer spring synthetic sleeping bag
lecs jacket and parka collars need to be more snug - perhaps velcro strap is required, webbing doesn't distribute weight evenly - lcv should be issued; cbt boots don't provide enough support and aren't waterproof; gortex boots need to be issued to all field units
rucksack must be replaced, it causes too much damage to the back
scarf is underrated and should be kept inservice; polar fleece should come with ventilation ports; rain jkt should be made so it can ventilate under arms and across back; cbt hat should be softer more pliable material; cbt glove should be form fitting and better quality material; light weight turtleneck should be issued to land forces with option of when to wear; prospectors sole is very slippery, softer rubber would be better; jungle boots are good, but sole should also be of softer rubber; self inflating air mattress should have anti slip coating so sleeping bags don't slide off; mukluks dont' provide any arch support and let moisture in and since most of Canada has wet winters, they're useless except in Alert; need better small pack; rain jacket should have removable liner
current system of acquisition of equipment for the army fails to address the needs of a particular group within the combat arms, what is good for the armour/arty/engr may be totally unacceptable to the infantry
it's nice to have this new kit if you could wear it or even get it, 1st you have to go on a UN, NATO tour to get it, and be able to war it. 2nd some old crusty RSM who has never seen the stuff, does not like others that do have it wearing it, unless they have a medical chits or all pers have it in the unit
I think the alice pack should be standard issue, also the fleece
personnel from combat units should be issued with all lecs clothing immediately. Old combat boots should be replaced with summer and winter weight gortex boots. Cbt gloves should be gortex. This questionnaire was badly needed for feedback, it should be continued on an annual basis
new thermos canteen good however should have been fitted to old canteen cup - what do you cook in? new eqpt an improvement but need enough for general not temp. issue. Sleeping bags are overdue for replacement they can only be dry cleaned so many times adn still be worth having. lightweight summer cbt socks required.
I feel there is a problem with issuing policy (2g). After 15 yrs in svc and posted to my 2nd field unit, I was issued 6 pairs of boxer shorts (which I never wear) but I found it strange that long underwear which could have been of more use were not issued. It seems only pers who have had a UN tour get much newer and better types of kit such as fleece shirt, tan boots, the list goes on. This is not fair. There are more problems but not enough space to write here.

If combat clothing was made of breatheable material (like a cotton rip-stop US uses) it would be perfect. I like webbing when I am doing non-armoured recce roles because of modular system allows me to customize it to my specs. Be'ter raingear should be developed, the current one is only good for a light rain or a wind breaker
supply the new kit to all members of the CF, not just the few that do UN tours
LBV - if mesh you wouldn't be so hot and it would be lighter; prospector boots too heavy and warm, Danners would be better; leatherman is a better multitool; need gortex gloves, not the combat
military must get into buying more gortex kit as well as more fleece; sizes for combats are right out of it for between sizes, ie. Pants to 32 then 36; how about Fort Lewis Danner boots to augment our regular cbt boots, do away with overboots
most of equipment we have in circulation today, falls apart too fast, seams not strong enough; rain gear holds in the moisture instead of keeping it out
exercises are made more difficult for the lack of proper equipment, to match the environment. Going on exercise with worn through cbts sucks. I am of average height and weight yet find it difficult to replace worn clothing. I find that I go on exercies at my own expense, ie. gloves
raingear doesn't work very well; need better glovces for temp -5 to +30, ie. Thinsulate/gortex gloves for subzero and thinner more practical fall/summer gloves ie. More flexible/durable; rucksack needs more outer pockets, centre of gravity too low
cbt boots need to be replaced with a more comfortable style; cbt pants should be gortex
should go back to the 64 pattern ruck, with 82 pattern straps and 64 pattern baf, bring a lighter boot like a danner
when we do get some of this new clothing, whenever it comes, it should have the first priority of going to the infantry soldiers, who are the most exposed to all extremes of weather with one of the most physical MOCs
takes too long to get the equipment we need, as I waited 1 -1/2 years for a bivi bag - too long! We're also short on t-shirts. I replaced all of my long underwear with new ones and within a month they all shrunk. The pants used to go to my ankles, now I'm lucky if htye reach the halfway point between my ankles and knees (I bought x-large)
where's the camo combats; please buy danner gortex boots; buy Brit gortex gloves; redesign mag pouches for webbing; redesign combat pockets, ie. Bigger, easier to get into
My concern is the time it is taking to outfit the soldier. There is a lack of gortex for reasons beyond me but the soldier of today should have the gortex parka, cbt jacket and wind pants as initial issue into the CF. Try standing out on the windy hills of Suffield on a rainy night without these items and you may understand what I mean
all cbt arm's pers should be issued brown boots, lecs jacket and parka and keep them because most oversea's tours have to turn them back in. The weather in Canada is colder than in Bosnia. They should stop talking about issuing and actually issue the kit
lets stop talking and start providing
these items I have listed as best field kit are very good. I have only worn them once but they are comfortable, easy to move in and should be put into the system for all troops to have that are field operational untis for better protection and comfort while in the field
need a high volume rucksack that can be worn over webbing and places weight high on shoulders;must be para compatible. Current cold weather clothing is heavy and bulky and not particularly efficient
gerber is useful but breaks too easily; air mattress is good for a base trade but cbt arms its not; 4 man tent - ever try to get 4 tankers in this tent with kit?; why the hell can't I get gortex boots, so what if I haven't been to Bosnia; bivi bag is great, new fingerless gloves good too; must get rid of the bug juice.
with the new clothe-the-soldier project things will improve. I just hope that the CF can find a replacement (good) for the grey wool socks that is so fondly hated.
I believe that gortex is the way to go, it allows body heat to dissipate while keeping rain out. A hat (field) shoud provide better sun and rain protection for the individual. Hard rubber soles provide no shock absorbtion which causes ankle and knee injuries
lots of shortage of combat clothing in regular size
knapsack would be well received; better cbt gloves are definitely required
look at procuring gortex/thinsulate equipment, particularly to replace the cbt boot, but also the jacket. I know many troops (myself included) who have purchased gortex clothing - boots mostly
should go to an internal frame rucksack; need to have a regular issue gortex boot; rain jacket needs to be able to breathe
require gortex type rain jacket/pants; thinsulate, gortex gloves; require broad brimmed type field cap
I've been listening to people complain about our boots since 1980. As a medic I see what these boots do to members who wear them all day, in garrison and field, we run with these things! No wonder so many have problems with their back, knees and lower legs. I haven't even mentioned the 10 cent insoles used.
beret - don't fit and too small; long underwear - useless when you sweat in cold, makes you susceptible to hypothermia; cbt boots - have wrecked many members feet and continue to do so; military needs to upgrade systems
webbing 82 - too difficult to change configurations, ie. Attachments very difficult to manipulate; rucksack 82 - not enough volume! Recommend british bergen or similar pack
from what I've seen of new kit (lecs) it is light years ahead of the old stuff, unfortunately, it is taking forever to get it into the hands of the troops

stop letting ??? test the equipment, get officers out of the procurement loop, see what the real armies (ie. Brit/german/israeli) in the world are using, stop wasting money with the useless surveys
I believe that the rucksack must be scrapped for an internal frame pack, the 82 pattern is a piece of garbage, you cannot breathe while its on and compromises a soldiers effectiveness
only those pers who are 'primary users' of a piece of kit should test that kit. All other users can adapt. Ie. Clerks are onoly ones to test office chairs, infantry are the only ones to test rucksacks, not men who use it only as a suitcase. That's why as a jumper I still have to use a ruck that the us army stopped using in 1965! Miss Piggy working base side as a clerk should have nothing to say about ruck design
Most of our eqpt is outdated and we are in desparate need of a refit. We should not try to please the full spectrum of military, ie. Rucksacks for field units not for garrison pers. Trials should be done by the pers who could possibly use it in cbt. We need disruptive pattern clothing/eqpt if it doesn't work why does the remainder of NATO army's use it?
cbt cap is nothing more than head covering - doesn't adequately cover the head, rucksack falls apart when dropped, iecs eqpt issued for UNPROFOR should be issued to the military in general as most of the eqpt in Canada is old issue and out of date. Gortex jacket in particular as you can layer yourself in the winter time is good
webbing replace w. LCV, canvas material on ncv replace with: mesh; rucksack is junk - replace with alice; cbt gloves useless, replace with gortex, cbt cap needs lighter material and wider brim; multitool - pliers snap off too easily; issue the iecs kit the air force has it, why not us?
it would be nice to be issued all of these new items, instead of waiting ten years for them or answering questionnaries
cbt pants - I have long legs and a small waist, in order for my pants to fit in length, I have to wear pants with a very large waist, could we not get pants in the system that are more gender specific
replacement rucksack must be useable by the full range of personnel: all heights; most problems with the cbt boot are related to an insufficient number of sizes and widths available; crew helmets need to be provided to crew commanders as well, otherwise we are forced to jury-rig to provide eye protection, comms and protection
current inservice cbt boots lack support and tread which makes them unacceptable on uneven ground especially since the tread pattern wears down so quickly, lack of eqpt and sizes is also difficult for those who are not average size. Please consider larger surplus for soldiers over 6'2" in height
gerber tool is handy but not sturdy enough, leatherman seems stronger or maybe that's because people who paid for a leatherman, don't use them as roughly as they do the 'free' gerber
an appearance of professionalism and toughness has proven to be vital in dealing with belligerents on our overseas ops and gaining early respect from fellow peacekeepers. Why must we always wear olive drab (like the Kenyans and the Nepalese) rather than switching to a cam pattern?
in this day and age where soldiers are being deployed all over the world, even our own country on sometimes dangerous and always challenging missions on relatively short notice, sometimes only hours, we need to be equipped with the kit for an operational theatre at all times. Troops get cold and wet in Canada, not only in an operational theatre.
need cbt shorts for summertime, switch to multi-colour cbt for proper camouflage, cbt boots have destroyed feet, made me flat footed because of the lack of arch support and soles too hard, always sweating too! Rucksack hurts lower back and has lousy storage, gloves not functional; gray socks too itchy and hot
the better items of clothing are only available to those going overseas. They should be made available to all soldiers
boots with a more pliable sole with more give will greatly reduce strain to the knees; lcv is a great idea although the material used does not allow for ventilation nor is it compatible with the C9 LMG ammo boxes
US ranger socks with reinforced heel and toe are an excellent alternative to gray socks, polar fleece toque good alternative to wool one.
There is no workable winter glove for winter, I have many times been forced to wear civilian gloves. Rucksack weight is all at the bottom, hard on the back. Sleeping bag carrier should be at the top
I don't mind doing these survey's if they get taken seriously. However I have done many over the last 24 years and they don't go anywhere. We keep trialing equipment that has been proven, and are garbage, this is much like 'inquiries' all talk and CYA. Winter whites are nylong and a fire hazard; webbing is not sewn properly and falls apart at the seams; rucksack is design to destroy your back
proper sizes should be more available for combats, as they are worn every day. Proper, fitted, warm boots are essential to the field soldier, more effort should be made in this area
I love the new clothing, too bad we have it only overseas and still have to freeze our butts here in Canada. Of course, we sure look good over there.
nothing to say to you
pro-patria
why waste money on new combats - current issue is fine - just cover the buttons; lcv better size adjustment needed, when you get 1 big enough to fit over a winter jacket it is too big for warm weather use

rucksack 82 pattern and webbing too hard on wearer's back, too hard to take apart and adjust, for patrolling. A small pack that isn't too small for patrolling (ie. Carry radio, rations/clothing, battery) Keep it simple, the old us pattern was good, velcro with snaps would have fixed it, we didn't need to reinvent a whole new wheel. Air mattress - too thin for winter ops
cbt uniform in high temp (ie. Burning) will melt possibly into wounds, should be of natural fibres; long underwear should have more sweat wicking capabilities, ie. Polypro, chlorofibre; fasteners for web gear need to be improved, they either break or freeze up
It took years for you incompetent people to realize that running in combat boots was not good for you. How many people are ruined because of your ignorance? Flat feet, fallen arches, bad backs and knees, all because of your stupid ideas of running in no support boots. Thanks.
webbing is terrible, needs to be revamped, cbt clothes generally too small for bigger people (sleeves too short), cbt cap is a joke, rain gear needs to be breatheable and gets way too hot; boots are excellent
rucksack does not have enough storage space in the main compartment, a design more along the lines of the British Bergen would be more acceptable
the use of this outdated equipment is of no excuse, get off the band wagon, look at the other countries and see with your eyes what they are using. As the army uses this as a day-to-day uniform, something has to be done
belt is too narrow
get rid of combat hat and issue ball caps like US army; use ony gortex boots; bring back old air mattress (black rubber)
keep in mind that I have only used this equipment during BDF exercises and TD to Thule Greenland and TD in the US so it may reflect the same views as someone who had to live in this equipment for six months or longer; mukluks - no support and after prolonged use - no longer water resistent; rain jacket you get just as wet from perspiration as from rain
82 pattern ruck is totally unpractical with its load distribution, sleeping bags should be on the shoulders; issue cbt boots promote injury to all joints from hips down to feet in todays operational requirements
over the years I have noticed cbt clothing has become poorer fitting. I think this is the manufacturer's fault because the design hasn't changed other than rfc stress pts (knees, elbows, etc) which is a good thing. However, I and my compatriats find that the wrists are too narrow/small (can't button them up), the shoulders too narrow, the pants about 2" too short for the waist size, and the shirt too large in the mid-section. It's like a pregnant female was used as a sizing model, not a fit soldier with a muscular build. Please see flag 143 for additional comments
need rucksack with internal frame which is comparable to what is available to civilian hikers; wool gray socks are too hot for summer use; need new cbt boots which provide more cushion for knees, ie. Danners; nice to see that you are trying to gather inputf from the soldiers
cbt pants - good provided we are allowed to exchange when worn; keep up the good work, in looking after the troops
the reason I have problems with the above items is size. These things are all way too big for me. I think petite womens sizes would be helpful
thermal underwear - cotton kills, useless when wet; ruck - very poor design; rain gear - need versatile breatheable durable layering to include cold weather. Equipment and clothing do not seem to get to the soldiers who need it whether it is issued to people who don't need it or there is a short coming in sotres. There are soldiers who need the eqpt and should be made a priority over others, ie. infantry units over Svc Bns
cbt jkt - find gortex replacement; ruck - flimsy frame, canvas mat retains water; underwear - find polypro replacement; helmet - comfortable and easy to adjust; cbts - durable and low maint, cam pattern would be nice; sleeping bag - we do winter kit well, this is a good example. We appear to be heading in the right direction WRT Cbt clothing but it is taking forever. With all the gortex and other 'breathing' materials on the market, cotton would seem to be passe. As well, the MK III cbt boot was once top of the line, but there are several other brands out there that are more comfortable, warm and offer a great degree of water resistance
as was stated by MND and NDHQ, "we will now be more cost effective and purchase off the shelf equipment that has been proven in operations." When is this going to happen, ie. New gortex clothing, combats, vehicles, weapon systems, equipment, etc.
webbing not user friendly. Personnel who are actually using the equipment should be consulted more often as to what is actually required and/or modifications
with the new dress req that has cbt as the everyday dress, the issue of durability must addressed; the replacement for the C5 knife was a waste of money; cbt gloves don't come in big enough sizes, when worn with liners unable to bend fingers due to tightness; rain suit leaks and becomes a sweat box, should be gortex
cbt cap should be replaced with boonie cap or tilley hat; 1 issue pair cbt boots same for everyone, 2nd issue should be field boots chosen by individual (partial reimbursement from army) from a list of approved boots (eg. Danner, Matterhorn)
90% of soldiers who live with a rucksack on their back use the old style or para rucksack, many buy them at surplus stores; cbt gloves should have a gortex liner; load carrying vest should be a mesh material, in Bosnia with temp and humidity there was a definate lack of ventilation; chin strap on the new helmet is not left hand firer friendly
military should give a soldier the choice of boots from all civi patterns, ie. Danner, hitech, as long as they are black. Don't issue oxford shoes and forge cap to Junior NCM never worn and waste of money
all new kit should be issued to the combat arms first, ie. Infantry, before any service support personnel. All new kit should also be trialed by personnel who are infantry, not located behind a desk
the kit needs to be updated for all weather and we need it here in Canada, not just overseas

cbt boots don't provide enough support in general. If a soldier was given a 1 time issue of insulated and non-insulated Danner boots, he/she would never complain about footwear again. Also, being dry is being healthy & happy
need badly gortex rain gear, current does not allow for perspiration to escape. 031 infantry require a gortex glove thinsulate lined winter harsh condition handwear
multitool keeps breaking; why ask about the cbt glove when it has already been announced a new style will be issued? I have filled out clothing surveys before with the same questions, why not use past surveys instead of wasting time and money on new ones
it only took 20 years to get proper rain gear - thank God I'm out in March 1999. You pencil necks would not know good kit if it kicked you right in the nuts!
the rating system on this questionnaire is ambiguous. Shouldn't the barely acceptable (5) rating come before borderline (4). I consider acceptable the same as borderline. IECS fleece should be added to the scale of issue for field soldiers. Although some of us have it (from Bosnia) our RSM will not let us wear it (on the outside). The zip up turtle neck eliminates the need for a scarf. Need more room for comments.
new helmet is hard on your performance of shooting when you are left handed; multitool seems to be of poor quality since I have purchased one of my own and it has never broke but the one issued to me has broken 3 times. The danner boot should be picked as a replacement for the cbt boot; replace bush hat with a tilly hat and replace the existing ground sheet with a larger and better quality one; issue everybody with the mag light and pouch. Received gortex items overseas
cbt jacket - requires gortex shell; ruck - poor design, hard on back; gray socks - inconsistent in quality. A lot of the items are operational only at the present time therefore use by the members is limited to each tour length. As for other items, some are just poor quality and fall apart easily (ie. c4 mask carrier) and others are just poorly researched an designed (ie. rucksack, cbt hat, cbt jacket). There are many other alternatives that work and have been proven in cbt my our allies, ie. gortex shell acts as a cbt jacket and raincoat. Many items may work for trades pers however input from 031 soldier is essential especially at cpl - wo levels
the fleece top should have an elastic band around the waist
cbts - too thin and wears out quickly; prospector boots - although waterproof, hold sweat on the sole (trench foot); iecs jacket - water enters through every zipper; gray socks - too much nylon promotes sweat. Please give us better boots before we become injured and need them. How about a field cap that the armour corps is allowed to wear before we develop skin cancer
blanket - not the quilt, should get thinsulate lining; cbt shirt/pants are ok except unavailable sizes and colour. Quit trying to reinvent the wheel. The US and UK have done the research. They have the best equipment in the world. Learn from their successes. Our clothing is at least 30 yrs behind the times. ANd frequently replacement items like prospector boots have the same built in design problems. With the cbt boots and prespectors the main problems are fit, comfort, no arch support and soles made from old hockey pucks. Fleece jackets, glove liners, bag liners and toques would be welcome. Please see flag 172 for additional comments
Footwear - why wait til people develop foot problems and then purchase a proper boot, why not issue danner boots to all. Prospectors do not work and only cause trench foot. The desert boots are great for summer wear but recently when attached to 3 PPCLI, we could only wear black boots. It was very hot and members had to paint the brown boot black to wear them - stupid
why is it that field units are not allowed to wear iecs jacket and parka if issued, but other trades are issued these items and wear them?
underwear, thermal - restrictive and holds moisture; rucksack - poorly designed, bad buckles, poor frame; cbt jacket - bulky, poor environmental protection, avoided at all cost in the field
army clothing needs to be updated to current modern standards, using new materials, ie. Gortex, polar fleece, poly-pro etc. Get rid of cotton, wool etc. that becomes useless when wet.
rucksack change to a civi pattern; cbt boot change to all weather gortex; webbing change to icv of sorts with a new rucksack have a matching carry on bag; cbt jacket nd raincoat combined in one good gortex coat for all weather; some of this clothing is only issued for or on tours, why?
seven items in this questionnaire have not been issued to the new personnel in the military; bivi bag and gortex socks have turned out to be the best kit that I've been issued
cbt jacket - too heavy, soaks up rain, wind cuts right through it; long underwear - cotton is useless in cold, should be wool. The current issue clothing for wet wool climates is woefully inadequate, poorly ventilated, wrong materials, and lack of layering combine to degrade its performance. Ruck needs a serious overhaul, weight should be transferred to the hips and it should be wearable with complete fighting order. Need a daypack integrated into fighting order and marching order ensemble. Need sleeping system that is lighter, more compact, and suitable for wet climates.
gortex is the ultimate in all clothing. Better footwear, ie. Danners, in the long run could save on medical costs. One pair of gortex gloves could replace the current gloves and liners. Old cbt jackets, liners are very poor kit.
cbt gloves - no warmth or moisture protection; deu - embarrasing, bell bottom pants, ankle boots, perhaps improve the cut of uniform, blouse pant, with work dress boot; ruck - frail, low capacity, cheap plastic buckles. In crewman trade the crewsuit should be based on the us version, our version is restrictive and lacks practicality. LCV vest should be mesh not canvas, new helmet's straps impede visibility, prospector boot great improvement however too narrow and too long in design. THe Bianchi holster a great improvement, lift issuing restrictions from system, allow all trades access to all kit, ie. maglits, kitbags, gloves
I really dislike the cbt shirt and pants. After a few washes they shrink and wear out. If you put anything in your pockets in a short time the pocket wears out. We should have American BDUs

all the present cold weather items, ie. Parka, windpants and standard issue combat boots should be replaced with the IECS system for all combat arms units asap!
rain gear is totally useless, it only works as a wind breaker. Our cbt boots are close to leaving me cripple, I have no choice but to buy a pair on civi land. There are better types o nthe market
are we ever going to be issued IECS clothing for use in Canada? It is just as wet if not colder in the training areas in Canada. For some strange reason, we are more exposed to the elements training in Canada than on actual operations
cbt jacket - for the protection if offers, new lightweight liner should have a zipper and shadow pockets to be worn individually or under rain coat. Cbt jacket needs more custom pockets for fd msg pad/maglite/pens, cbt glove liners need grip surface for light glove protection when working insde crew vehicles. Being in the military for 20 years, I have yet to come close to anyone who is testing new kit - where are these pers selected from? Thanks for hearing my comments
the cbt shirt, pants, jacket and parka are outdated, uncomfortable, and are not ideal material for different weather conditions. The supply system is depleted of proper sizes and therefore we must wear worn out combats
cbts are good when there's enough to go around. Having to wait until the pants are nearly transparent before you can exchange them is completely ludicrous. New helmet is good but in cold conditions, it gets somewhat difficult to fasten the chinstrap together. Would a simple snap fastener not be better?
underwear - not female issue; bush cap - not made for people with small heads; sweater - really itchy; cbt pants - may wear but last forever; cbt shirt - very comfortable; cbt boots - good to work in
rain jacket - too long; icv - should be lighter and breathable; gortex socks - should be more form -fitting; balaclava - shoud allow for wearing of glasses; helmet - should have cole weather insert similar to US snoopy ears; ruck - should have rigid frame with better load distribution; lighter cbt boot with shock absorbent qualities would be a big plus
cbt clothing in general wears out far too fast; 82 pattern ruck cannot hold as much kit as the old one and does not have any good support for ones back on long marches; cbt gloves, once wet, provide no protection to hands especially during cool to cold weather; gerber tool is good but could be stronger
should have rated all kit; new kit should take advantage of existing technology (ie. Fleeces, wick away garments, gortex); we should be built for the cold first, we can always dress down for the summer. Obviously if we ever fight we will do it when it's cold because Canada is mostly a frigid wasteland
cbt shirts should be made of 100% cotton and have big pouch pockets for ammo and kit like british smock; more pouches for webbing for large volume capacity; iecs jkt should not have zipper pockets for liners, these items are not field soldier friendly, again look at new soldier 95 british gortex shell
it would be nice to be issued some of this kit, instead of it going to non-combat arms. I am tired of buying my own kit due to it not being issued and current issue does not meet requirements. Thanx
82 ruck - old ruck more rugged and comfortable; gray socks - need high topped sock ie. Tropical, so it does not slip down in boot; mukluk - needs gortex outer. We should be issued with "sarbathane" or some other sort of cushioned boot liner. At present I buy mine for $25. adn they last for 2-3 years. They are excellent adn have definately contributed greatly to my never having injury from running or marching in cbt boots
as a serving member of the CF, I've seen a lot of changes in regard to the kit we've been issued. To sum it up, most of the kit sucks. It's totally inadequate, breaks/rips easily, is uncomfortable, weighs too much. Cbt boots - plastic sole, cold, tread inferior; sleeping bag - bulky, heavy, try synthetic fill; ruck - too long, vallce should be on top; cbt jkt - bulky, inadequate; rain jkt - doesn't allow proper ventilation, once wet stays wet; wool socks - once wet stays wet, take too long to dry. With todays tech advances there is no reason why military can't adv as well. Properly equipped soldier is more effective - peacekeeping or aid to civil power. Well-equipped military can overcome any obstacle. Companies (ie. Mountain Eqpt Coop, US calvary, etc) have spent time and money to test eqpt. Look at Brit SAS pack, if good enough for someone 5' to carry 100lbs during Falklands War over harch climate and terrain, wouldn't it be good enough for us in peacetime? You only get out what you put in
a cushioned sole should be added to the MK III boot
the UNPROFOR parka and jacket are excellent pieces of kit, they do not restrict your movement. The old jacket I will not wear as it is useless. I'm very in the idea of this questionnaire and I hope it will make a difference and perhaps help to get rid of some of the useless kit out there.
icv is fantastic idea but has few serious flaws: needs better ventilated material, present vest is good if you are just standing around in moderate climates, a mesh design with lace up sides for expansion would be ideal, also on right shoulder you put plastic clip where rifle butt goes, suede patch intended for rifle butt is in wrong spot; gerber is good but its not the best candidate, breaks easily and hold down pins loosen; gortex socks are fine but are hardly used by infantrymen; 82 ruck is long over due for change, hard on infantrymen, useless for carrying heavy loads; some sort of patrol pack would be fantastic; monthly update on new kits and procurement and probable date of arrival would be nice (say in the Maple Leaf paper); a scrim net for the new helmet would be really appreciated.
why has the western area trg centre not been issued the new helmet? Quit testing and surveying and start issuing kit
we require rain gear not not in three years after long testing. Just buy raingear for now to provide troops with protection. Cbt cap that keeps the sun off the neck and gives protection from rain, an assault vest in more comfortable and spread out the weight without having all the straps of the web gear
CF clothing for female members are extremely out of date as well as uncomfortable. Purses are very expensive

raingear - no improvement at all, need gortex; webbing - falls apart, inflexible; knapsack - needs a waistband; cbts - comfortable, practical, easy to care for, please don't change. Thrilled to get asked my opinion but everybody knows that living the the Edenesque province of Alberta, we never get hot or cold or wet. There's obviously no need for we folks in Canada for new kit. Enough studies, issue the stuff.
something must be done about the optical sight fogging up problem. Between 0400 - 0600 in the morning the lens fogs up as does the dew level. I know we never had that problem with the iron sights. Not all people are created equal, therefore, changes must be made to the ruck we are using. We are letting all shapes and sizes in the military now, we had best make all shapes and sizes of equipment too.
rain jkt - new issue still leaks; ruck - useless; cbt boots - no cushion for rigorous trg. Load bearing vest should be used in the mechanized infantry, everything is in the vehicle, when you dismount spped, agility, survivability is threatened by the web gear. Easily gets caught on vehicle. Rain gear sucks, Brits, Amer., etc. allhave gortex type rain gear except Canada. What's going on for the troops?
the ruck is the worse design for back support and comfort, most of the weight is placed on your tailbone so that should be rectified, the cbt jkt is made of useless material and pretty much feels like a wind tunnel. Lastly the cbt gloves need to be insulated and waterproof
It is appalling that our cbt boots are unfit for running in. Running while in operational clothing is a part of training for war. What does the Commander of the army propose we wear for footwear when conducting PWT in accordance with "Shoot to Live", and when will we get new boots that are fit for operations?
lecs is better eqpt than what the majority of soldiers wear on duty in Canada. It is frustrating for soldiers to turn in this type of equipment. A family of underwear should be procured, it is available on the market and would satisfy the requirements of the military
most of the equipment in this questionnaire is not general issue
cbt clothing should be more durable and still have the ability to dry quickly, should be baggy to allow freedom of movement and layering. Everything we get looks like it comes from cdn tire. Look at the Brits and US with loose smocks and shirts, all our items are tailored and our soldiers aren't
the supply or quantity of combat clothing is unacceptable, when a soldier needs to exchange clothing or equipment there should be plenty in stock
cbt cap must give better protection from sun and rain - wider brim; rucksack frame is unacceptable and not really meant to be worn with buttpack and webbing; gas mask carrier - why does it keep getting bigger? Needs better way of securing to webbing (fastex) ,possibly a smaller bag with leg strap
cbt shirt/pants - not flame resistent, not cotton; ruck - fragile and not enough room; cbt boots - heavy, leak, cold
some clothing that has been proven by personal use by troops, they bought it themselves, ie. Danners and it works. This clothing has been tested, just ask then buy don't keep testing year after year
cbt clothing as an everyday order or dress, for army personnel, is functional in field but a sloppy looking uniform in garrison, particularly when in public, material cannot be pressed, hopefully new disruptive pattern will be better in this regard
ruck - radically different frame that has questionable load distribution capabilities, pockets can't hold a days IMPs, no place for thermos bottle; gray socks - recent batches are of poor quality, loose shape and wear out quickly; cbts - have generally stood the test of time, much better than US BDUs, only shortfall is shirt breast pocket won't take the field msg pad; webbing - excellent load capacity and comfort if worn properly; cbt cap - needs to be a bit larger to keep rain and sun off face and neck; need something between arctic mitts and cbt gloves for temperate winter conditions layering system?; I'm concerned that new clothing systems rely too much on high-tech fabrics, have they been test in fire and flash scenarios? especially those items next to the skin? check stats of burn wounds during the Falklands campaign. Questionnaire: The Garrison is LFCA only, why not the Maple Leaf?, excellent initiative
UNPROFOR kit could be utilized by all soldiers as temps in Canada also drop below freezing! Better footwear could help alleviate some of the foot and knee problems associated with wearing of cbt boots
a new light layer combat clothing should be purchased to cover all seasons, this would help members taking only one set of environmental clothing to the field - vise 2 kit bags and a rucksack
ruck - cuts off circulation in arms, need smaller sizes; sweater - uncomfortable; cbt gloves need to be smaller (womens sizes); rucksack - can cause permanent nerve damage in arms due to poor fit/construction - especially for smaller women; gray socks - wear too quickly - check workwear worlds sub-zero or arctic socks - they're fantastic
it's taking too long for things to go through testings, wrong people are testing eqpt, testing should be done by all units, or at least inspected before testing for approval, before wasting the time
in my opinion, cbt clothing must be breathable and durable, footwear must be adaptable and used as appropriate seasons require, gear for use on head, items used for extreme heat and extreme cold must be available for all environments
the continued use of nylon in cbt clothing (next to skin), despite all the evidence of the dramatically increased injuries that can occur in event of fire is totally unacceptable. In addition the use of plastic hooks on the web gear given the climatic extremes, and the ever increasing load carrying requirements of modern soldier, is astounding, the lcv could have been dramatically better had it not used old combat jacket material as the basis
sweater should be able to become a turtle-neck
army combat clothing should be of an interupted pattern and possibly of a material that could be pressed

the cbt jacket doesn't provide anyp rotection from elements, rain or wind. It also becomes easily water logged and is too heavy. Although it is heavy its insulating value is very poor. Cotton underwear is probably the worst type of underwear avail as it traps perspiration next to the body which causes heat loss when it should be keeping you warm. Good survey
start at the feet and work up a soldier needs to take care of his feet, it starts with good fitting boots
cbt boots - can't run in them; ruck - piece of crap; gray socks - people are allergic to wool; new helmet - vast improvement. Stop the BS of only enough kit for tours if these items are so good then what's wrong with getting enough. Are we idiots that you have to use pictures?
I've done plenty of work with TE, a lot of good kit was there but of course, cdn budget couldn't get it, raise taxes and get the kit, troops are getting frostbite on exercises, there's no need to be cold for the little amount that we're paid
cbt jkt - uncomfortable, no heat retention; rain jkt - not breathable; ruck 82 - weak frame, weight limits too low; lecs parka and pants - warm, waterproof, comfortable; lecs fleece top/bottom - warm, pulls moisture from skin. Put a small comment box on each item to expalin the acceptability or unacceptability. The lcv use a mesh back, make it C9 compatible and use a less heavy material
availability to all ranks, across the country of good kit/clothing on a necessity for ops basis but eventually to all LF members (reg and res) will greatly improve morale and assist in effectiveness of troops
really hate the rucksack for females and they do not fit tall males as well. Would love a good well-fitting, truly weather proof kit
these is a great area of improvement for the 82 pattern rucksack. Civilian internal frame mountaineering packs are an excellent pattern and very comfortable, this would be a good improvement
a gortex glove would be good, as well a version of the US jacket liner, a gortex boot for spring and fall, a summer boot, a winter boot that is waterproof, a fleece toque and a fleece neckwarmer would be better than a scarf, polypro underwear, boxer briefs instead of boxers, polypro socks instead of wool, gortex combat coat and parka
cbt shirt/jacket - pockets for FNC1 mags and grenades, can't access them with webbing or lcv on; cbt gloves - need ones that we can operate weapons with but are warm; it is possible to develop an lcv that is not so hot and dries more quickly? I realize that mesh options snag on everything, at least more venting, this is a very good piece of eqpt regardless; we need boots that we can run in - look at SWAT team style boots, also a gortex boot for cold and we weather (ie. Danners); more compact sleeping bag (use fleece for liner)
cbt shirt - especially for MPs on duty (pockets/waist strings); cbt boots - soles hurt back and knees when on pavement and concrete all day; cbt jacket - if a person has a large chest, jacket is tight through shoulders and looks like a bell tent at the waist. Thanks for taking the time to ask. I have trouble with almost all equipment due to 49/50 chest and 34 waist. Everything looks like a bell tent
tan boots are sligthly narrower than others; gray socks are poor quality; sleeping bags need to be updated totally (size, components, etc); should issue combat belt; cbt pants wear out in crotch quickly compared to all other areas
rucksack does not fit all personnel, short people have many problems with it as sleeping bags sit too low and bang on back of legs, should sit up top of rucksack (like old pattern use to)
why don't infantry troops who use the equipment design and test it? It is obvious wogs in Ottawa who never use this stuff buy it because they think it looks cool
sleeping bags are very efficient however one wet they are useless; lightweight, mount everest tested type bags are available at a fraction of the cost and much cheaper maintenance, gortex for all our troops or a regular issue not just on opsmust become a reality
In ref to cbt boot, old Mark I and II were of a superior quality to any cbt boot we have to data, myself being cbt arms have worn all types. The Mark I I had lasted up to 15 years while the Mark III fell apart with 1 year. Until I started wearing the Mark III I never had any medical problems they just don't offer the comfort and support
current cbt jkt is totally unacceptable, its not waterproof, its not windproof, the liner is far too bulky, it's too heavy, and like the parka it is severly lacking in storm proof closures, ie. A zipper to the top of the collar, front flap, and cuffs. I would estimate the design hasn't changed in 40 years, this is a totally ineffective piece of kit
cbt jacket is a jean jacket, which is good for nothing, all of our boots are shit, we are foot soldiers and we need good footwear, the rucksack is for legs
lecs jkt requires a mesh liner/nylon shell in order to achieve better ventilation; prospector boots should not be insulated - overheat when marching long distance; cbt gloves lack required dexterity to allow soldiers to fire rifles, etc while wearing gloves, liners should be make for left and right hands; cbt boots need shock absorbing soles made to fit all sizes, 1 boot for 2 sizes in unacceptable
unlike apes, humans possess opposable thumbs, perhaps our combat gloves should reflect this anatomical fact; cbt jackets and rain jackets are completely outdated and provide little benefit to cbt arms soldiers
years ago the gray socks were excellent, the ones available now are poorly made, when washed/dried they either shrink or in some cases become too large, also material is thin; suggest we go to us army od socks with the thick sole or produce our own
while I appreciate the utility nature of the cbt pants and shirt, I can't help but feel that as our primary working uniform for the army it could use modifications so that it doesn't look as sloppy when worn
cbt boots not breathable, uncomfortable, too hot; deu shirts long sleeve needs pockets; prefer plain pattern cbts not cam pattern; a design for rucksacks for women (small of back) needs doing; after all the changes to the womens army DEUs, they got rid of them, why? now we have to wait, probably a while for changes to the greens
military clothing has come a long way with regards to warmth and weather protection. However, some items are still not designed for smaller built individuals. The ruck is not designed to carry the weight high (where it should be) thus making is very uncomfortable, and putting undo strain on the back

cbt boot - not very economical; arctic mitts - warm but not manoueverable
for the amount of time a soldier spends on his/her feet, footwear is important, look at improving from the bottom up
personally, I find the cbt shirt to be the worst item of eqpt in current service. Not only does it look terrible, an issue now that cbts are dress of the day, but it is ill-fitting, the pockets are useless and the bottom pockets bulge out when wearing the icb/flak jacket. Moreover, the flaps catch on protrusions when mounted in an armed vehicle. Combats must go
the gray socks are not proper for cbt arms, they are useless in cold, get wet easily and cause blisters
82 pattern ruck was designed poorly, its weight distributions for men doesn't work, it puts all the weight at the hips when it should be at the shoulders - the 64 pattern was a good design
rain jkt - should use breatheable material; cbt gloves - do not provide warmth; cbt boot - not comfortable for extended force marches, many foot ailments as a result; layered clothing that is integrated with all pieces of clothing dn eqpt is essential, clothing that is light, breathes adn dries quickly even when drying conditions are poor, ie. inside a 5/10 man arctic tent
its time the Canadian army adapted its clothing and equipment to the modern times, so the field soldiers aren't forced to spend their own money on kit they should be issued. Also I would like to see Danner boots and hi tech boots if soldiers are willing to pay for it.
we need a lighter summer boot, it can be just as hot in Canada as it is in Fry. Soldiers will wear jungle or desert boots if permitted which indicates their value and popularity
cbt gloves - keep your fingers cold in August; cbt jkt - just silly; webbing is uncomfortable and the bags are unaccessible. We are patiently awaiting the new "Good" kit
the first priority must be to replace the rucksack and boots to create healthier backs and knees
the gray socks last 3-4 washes, this is totally unacceptable and should be changed asap
cbt jackets and boots as well as rain jkt suck. They are poorly mad,e not made for infantry soldiers who use it all the time. Its good for weekend warriors. Why not make it good the first time, use other armies eqpt like the British or the US, us them as an example
one thing that should be done is a better kidney belt for the rucksack also for the web gear. Also the issue of danner's should be issued to troops
ensure the people who need the eqpt (cbt arms beginning with infantry) get the items first - before logistitions; buy sufficient clothing for whole army, not just for theatre
long underwear - shrink horribly; cap isn't bad except it shrinks and now won't fit; cbt boots - no matter how long I've worn them, they always give me blisters on marches and hurt everyday. A lighter-frame rucksack that rides higher on the shoulders would be excellent, all the strings and buttons on the cbt jacket are a hassle when going in and out of tents and trucks all the time
it is time the Canadian army recognized we are no longer fighting the Korean war. There are many good pieces of equipment from electronics to clothing to weapons that utilize modern fabrics, plastics, and production methods. Lets join other nations' armies in the 21st century
overall, the equipment is more than adequate. It does the job it was designed for. There is always something better on the market - so we have to go with what we can afford now
MVP socks are not provided in good range of sizes, thus for me the seams hit at a point that is a pressure point from the boots = blisters.
clothing issued in theatre should be available while in Canada, we were better off with only 1 DEU not 3; a small pack for daily use to carry lunch, PI clothing etc. to and from work (ie. The WBCW bag size); new jump bag for field medics
helmet -when firing service rifle if your left-handed you r strap is in the way, also when carrying a radio while doing infantry tactics you cannot lift your head. The rucksack is not built for shorter peope and it does not fit females properly
I was under the assumption that females were supposed to be getting new CF uniforms, where are they? Why is there only one size for a lot of items, etc. gloves? I went to get smaller combat gloves and all that was there were large. Why isn't there smaller sizes?
save money by issuing gortex boots instead of gortex socks, get rid of the socks, issue 1 pair combat boots, 1 pair gortex; dry is happy, more gortex, cbt jacket out of style, has no purpose, redesign; gortex; even just a shell to put over the iecs fleece top; every piece of kit we have is a total waste of money. It is for the most part substandard and doing surveys, paying people to do the work, etc., wastes more money. Please buy good kit for once, if it is good, it will not have to be replaced. Look at civilian companies and they do exist outside of Quebec
cbt jkt - haven't worn in 15 years. Its about time! Glad to see that NDHQ wants feedback from the troops in the field about our kit! UCRs don't work. Why not put this survey on-line. The US army has an excellent sight www.forcom.army.mil/ocle/
cbt cap needs to be bigger to actually keep off the sun. The new rain suit (not iecs) is much better than the old one. Note it is not good if you have to work in it
Much of the questionnaire included eqpt not issued to me for my deployment to UNPROFOR. In other cases,there is not enough eqpt available in the system to allow me to draw the kit. I have to rely on my own items. The major problem is that we are constantly trying to re-invent the wheel in regards to eqpt. Our limited budget should not go to research and trials that wind up with us buying an inferior canadian product. Let's buy proven off the shelf eqpt. Also cbt eqpt should be sold in Can so a soldier can buy extra if they want to. This should include eqpt like webbing/groundsheets, etc.

cbt boots - every other 1/2 size does not work; cbt jkt - have you worn that piece of canvas in the field?; rain jkt - better than old wind breaker but still leaks like a sieve after 2 days of rain. I feel there has been enough study on kit matters, there have been numerous UCRs on the boots and rain gear over the years, do something about it! This questionnaire is just more smoke and mirrors. 80% solution is not good enough. Less talk, more action, sort this out! How much is this questionnaire costing anyways?
the gerber is not a good tool, many have broken without abuse. Many including myself have purchased leatherman super tools. A much better tool
the combat pants are not made for women with long legs and small waist
priority should be placed on replacing the rucksack and cbt boots with similar equipment that is more functional
we need a new combat cap and please not the tilley hat. Our cbt jacket is a cold trap and we need a gortex rain jacket, and new webbing and a new rucksack
undershirt shrinks; water bottle carrier breaks too easily; pants/shirts too short. Current issue clothing is only provided for personnel under 72" tall. Items would get better ratings if fit were improved. Durability can be improved on iecs items, use cbt jacket "outer" as example of durability.
any boot in the military should have speed lace, military clothing should be made of a material that won't wear out after 1 year of use, wool socks used to be good quality but lately the socks have been so pathetic as to fall apart after 1 wash
gerber - no good; rain gear - it's useless, you sweat so much in it that you don't need it; prospector boots - too heavy; cbt trousers - zipper breaks easily; gortex eqpt is good; bivi bag - really good (one of the best pieces of kit ever issued)
I would like to see a cbt shirt that tucks into pants. The present cbt shirt is very outdated. I would also like to see a cam pattern on our field clothing
new issue helmet id good but requires a buckle on opposite side as an option for left handed shooters; iecs jacket is good but the collar needs to be redesigned to keep water out - not funnel it in; doubtful is iecs parka would be warm enough at extreme temperatures
bilingual questionnaire would be appreicated; los of new equipment is available for UNPROFOR. General comments are positive so why don't you give them to garrison
more research should be done in the way of footwear to reduce long and short term injuries duely related, ie. Cbt boots and shin splints, lower back problem and all general foot problems or disorders; anybody who thinks canvas keeps them warm is thick
just because other armies are using paint by number camouflage in their clothing doesn't mean we have to too. I used to believe that paint-by-number was more effective but experience on field exercises has proven this is not the case, at least in my view
all iecs equipment was welcome in Bosnia, however it's utility was even more evident during a winter in Shilo, the pants and parka are a quantum leap better than the current windpants/parka
for gloves, buy off the shelf american best defence or british cold wet weather glove. Quit wasting time developing this stuff, we need it
multitool is completely unacceptable, not sturdy enough and is unreliable; sleeping bag - it's the 90s there is now synthetic materials to replace down, making the sleeping bag smaller, lighter and easier to carry and pack for field soldiers
many items of clothing and eqpt are outdated and should be replaced. Witner field kit especially mukluks are not waterproof but should be. Winter parka should be replaced with items of modern insulation to reduce weight. Many items are not of the quality required and become unserviceable quickly. Entire units should be interviewed
cbt clothing is generally good, as long as proper sizes are available and garments are in good conditions; rain jackets cannot be worn when going work because it's like wearing a garbage bag
icv is hot in summer and uncomfortable to wear in combination with existing rucksack, sizing of cbt pants is awkward, the waist size chagnes at average size (32") a person is either trying to squeeze into a 29" - 31-1/2" or swimming in a 32"-37"
must have clothing that keeps hands and feet warm and dry - don't waste time going to disruptive pattern (current material is light and dries quickly)
you've got to be kidding (best clothing) - all combat clothes have too many buttons, strings and goodies that get stuck on everything in field side and for lineman when climbing
icv requires improvement, does not vent; ruck must change, does not wear well on marches, should look at old ruck; fleece is great, iecs jacket and parka should be larger to allow layering of clothing
combine old ruck frame with new ruck bag and you'd have perfect ruck; combine cbt jacket with rain jacket in gortex garment would be a great solution - add thinsulate lining that's lighter would be even better; top-quality sports type insole for the cbt boot would greatly improve the boot in general; why not use either the old cdn para or the brit camo pattern for our combat clothes
cbt boots should be quality of a Danner, better comfort and cushioning bottoms; wool when wet doesn't dry fast, should go with fleece, or gortex products; air mattress should be at least 3-4" thick to better insulate you from the ground. This is a 1990's military, you should equip us as such. Feel free to contact me for more detailed explantion. Cpl Brown, DA (15 yrs exp) @ 2668/2669 CFB Edmonton 1 Fd Amb
more consideration is to be given to the 20% left handed shooters in the CF. The new helmet buckle is a hinderance to lefty's. New gas mask eye pieces are easily scratched (plastic?) the LSVW is a disgrace! Already I'm sure due to maintenance cost it has to be more expensive than the hummer per unit
the most important item of kit needed is rain gear - gortex - must be something that can breathe, the current rain gear is a sweat trap and it does not keep you dry

rain gear should be gortex, I understand it is available but it should be issued to all army personnel as well as gortex socks and boots. Load bearing vests should also be mandatory. This would enable a better standards of an infantry soldier, if we are comfortable we work better and even better when we are dry
the lecs clothing should be issued to all CF field soldiers whether in Canada or operationally
socks gray - wear out too fast; cbts - not fire resistant
with everyone being operational, you should receive an issue of equipment on enrollment, if you have to turn everything in when you move,you usually end up without equipment because of shortages or it doesn't fit
we need a shell not an insulated jacket, a shell can be used in wind/rain - give it armpit zippers - the jacket is too warm, a shell can be combined with fleece or worn over a t-shirt, give us flexibility
having completed 2 tours in Yugo I have yet to be issued or use new generation clothing - priority should be given to combat arms personnel
socks and underwear shrink, cbt boots are either too big or too small
new lecs jacket should have attached hood, could save money by making it so that it could be used as both parka and jacket like us jacket (gortex). Hood over that are being trialed are great, could issue a summer style cbt boot design similar to desert boot but black and a winter cbt boot gortex not required (traps too much moisture during high activity) boots should be designed to run or shuffle in
all trades have different requirements and everyone should be given some form of input. It is a shame I first trialed a helmet in 1984, got a new one issued in 1996, c79 sight. Lsvw, (finally mags) cbt glvoes, rucksack
there are no good items of clothing. In this paper you have 4 different jackets, one for rain, very cold, med cold. You could save money by making an all round one. As it gets colder you add layers for an eg. Check out jacket shells at mountain equipment coop and see how the shells and the fleece work together
helmet would be fine with a better chin strap buckle, the metal securing system is awkward; good pair of cbt boots with hiking and running capabilities, ie. Shock absorbing material would be best; rain coats that are breatheable would alleviate the heat and moisture that builds up - especially in warm climates
Gray socks and t-shirts, wash once, they're too small. The main problem is getting used clothing when going on tours. That is when you get anything. My last tour all I could get was a duffle bag and rucksack with no frame, this is not the way to send troops into a combat zone
gray socks - wear out too fast, don't fit properly; new berets - too small to shape
more difficulty in getting combats to fit than with their appearance or function; combats very hot in summer and not great weight without layers in cooler weather, ie. Not best for all seasons in northern prairies
our modern army should recognize that soldiers come in all sizes. The ruck march is still used to measure physical fitness yet cannot be adapted to fit a small frame. The result is excrutiating lower back and should pain. Small soldiers should have the option of using the old style rucksack which was smaller and distributed weight differently
rain suit doesn't breathe, camo cream stick - too brittle; safety boots - much too hot for summer, how about steel toed combat boots? Please take the beret out of service as a part of cbt dress and restrict it to DEU or garrison use only. It looks sharp but if offers no protection in winter and is terribly hot and uncomfortable in summer heat. The bush cap would be better suited for working. Don't ever get rid of combats.
the cf must purchase a new combat glove. The last time I wore the outer was during basic training 1976. They keep your hands cold and wet. I only wear the inners and extreme cold double inners. The new frames are not durable enough, I still use the old rucksack. The only time I used the new rucksack was during the QL6B - it held in the water = more weight
cbt boots - soles unacceptable, uncomfortable; gray socks - itchy, make feet too warm; beret - not made for windy days, not enough material; rucksack - totally unacceptable, painful, probably #1 reason for back injuries in the CF army
I feel that the new gortex equipment should be issued to combat trades who spend the majority of their time in the field than to people who sit in garrison
make all clothing (female sizes) same as the male sizes. Some women are built larger than others and everytime I go to get clothing the sizes don't fit
The best items are the one's not issued to all because of money. The rucksack bag is fine, it is the frame that is no good; boots are a hard item to get right, a soldiers feet are his only mode of transportation, money must be spent to keep his feet dry, warm and comfortable
personally, I find the new equipment tries too hard. The us gortex jacket is much simpler and way more effective. The cbt jacket something like the material used in the SAS windsmock and style functions well during all weather and patrolling and is popular with the troops. The load bearing vest is a good idea, but the lower pockets don't fit C9 boxes or waterbottles, as well mesh should be used as when we were in Africa they were very uncomfortable
I was unable to fit into the combat boot by new contractor and I did not have any foot problems. The supply system did not have in its entire system a pair of equivalent to size 6. It took over six months to receive a set of extra-short, extra-small combats (shirt and pants) through the system; the gray socks are getting worse with each contractor. They only last two months instead of two years like they used to
better clothing will start to build morale

cbt clothing is old and hard to replace; cbt boots are not comfortable or foot friendly when working or in garrison; army DEUs (green) are not comfortable for wear in summer; more polar fleece items should be available
cbt boot does not fit properly and when finally worn in enough to be comfortable, they have no support left. They cause foot and leg problems during the time you try to break them in. The cbt glove outer, does not fit a human hand. The rucksack should be made adjustable for back length. It causes many back problems
there seems to be very little information being passed on regarding when this new equipment is being issued. When can we expect to see any of it?
cbt boot would be very good if they had vibrim soles (light weight flat sole); long underwear should be polypro; cbt cap should be tilley style
the new lecs winter system should be issued to all personnel, a gortex summer boot should be issued to all personnel, as well as the regular gortex boots. Should come out with a new polypropylene long underwear and a poly neck tube (get rid of scarf)
rubber soles on the cbt boots are too hard and provide poor traction on rocky or slick surfaces; plastic hooks on webbing just don't give enough strength or durability; pockets on cbts should be changed to fit 30 round magazine; gas mask carrier strap needs a stronger way to join it to the pouch
cbt clothing should have same pattern as new helmet cam; multi tool is a poor quality of metal (breaks easily) but good design; need wet weather gloves; gortex rain gear - the present items are useless, we still get very wet wearing the jacket and pants
with regards to the lcv, great piece of kit, could be improved by having it made out of mesh material instead of cloth, allowing the air to flow through better
most of the gortex clothing has no abrasion resistance, the field cap doesn't work as well as being very unprofessional looking; the three worst pieces of kit listed are not worn by 90% of the soldiers
cbt boots that are purchased in the future should have a flat sole, with a pair for summer and a pair for winter. Proper socks should be issued such as Thor-Lo
from 30 years experience I find that our cbt clothing stands out like a sore thumb, what we need is a complete set of clothing that will blend in to the background. C7 rifle is useless as it has no decent range or stopping power like the FNC1 or FNC2
as a member of the armed forces, I believed that we should be equipt with the best clothing and equipment that money can buy, due to all the commitment we have to do.
the rain gear makes a great windbreaker but I find I get as wet from sweat as I do from water. We're using equipment from a Vietnam era (ie. Web gear) I think its time we jumped into the 90s
lcv, it's alright but use a mesh type like the Brits; need a new rucksack;need a new light type of sleeping bag, not big and overweight; get the leatherman tool; need a new type of webbing
why are non-field units always issued with all gortex kit, brand new kit and gerber tools when most of their time is spent indoors? Why are actualy field units not used properly to test kit? Why does Canada not look at what British and American soldiers use that works well in our climate? It's the kit that soldiers end up having to buy for themselves anyways. Please see flag 371 for additional comments
fleece pants need a full length zipper down each leg; lcv mag pouches need to be higher and closer together witht eh flak vest on the outer mag pouches are in my armpits, overall the vest is too bulky and pockets too big, vest should be designed for fighting not carrying the contents of our rucksack
overall - awful - webbing, ruck - the worst design in weight distribution avail (lower back and hips); lecs kit is good - too bad we only have it for tours. Gerber absolutely inferior quality - I've broken 3. LBV - heavy brown canvas - perfect for climates around 50 degrees, get something made from mesh that is adjustable to wear over layers.
air matress needs to be exchanged after every use because of holes (poor material); cbt pants need a pocket flap stitched over pocket flap to protect pocket buttons from being snagged and ripped off; gray socks in stores need to be consistent in high quality and size; webbing mag pouches need better closures because sect atk mag changes become almost impossible; lbv mag pouches too high, pockets too small, material too hot, not durable for holding metal magazines, needs to be mesh to retain dirt
poncho liner is too stiff and heavy; bivi bag should have a waterproof zipper along its length; cbt glove inner doesn't fit properly; when will white helmet covers be issued?
being in the armour corps, due to tradition, we are unable to wear anything other than the black beret or cvc helmet while manning our vehicles. The surgeon general has stated that during hot weather, ie. Sunny, the cbt cap is authorized but not in the armour corps
82 pattern ruck is way overdue for a change, while being ergonomically correct, the kidney/back pad is too small, the shoulder padding should be bigger, all clips should be re-inforced (heavy duty) and the pack has a tendency to slip off the frame, especially the top corners
the desert boots are fantastic, they should be part of summer dress in cbts. Quick tie laces and excellent insoles. The cam on the helmet looks ridiculous
cbt clothing is now daily dress, except for next to skin items, clothing stores needs sufficient stock for exchange, daily wear in garrison will increase the requirement for exchanges; we do not need to have any soldiers on duty wearing worn out cbt clothing, improvements are being made in quality, durability, etc., what is needed now is sufficient quantity
all clothing items should increase their ability to repel water; gloves should be completely waterproof and layered for warmth
rucksack and combat cap should be priority, present combat uniform does not need replacement except cbt jacket
I'd like to see an all weather jacket system with a weatherproof shell (not gortex) as well as pants

just finished a tour with New Zealand Army, just received new rain gear, which is the best that I have seen from any NATO country. Something to look at. Cbt gloves need to be replaced right away. I wear Danner due to orthotics, they have by far the best boots that I have worn, they have lasted twice as long as my cbt boots have. Why not buy off the shelf for clothing selection, why are there no NCO at the initial selection phase, they have the experience
cbt cap is impractical, too heavy for summer, not suitable for winter; cbt boots - 1 knee at 60%, 1 at 75% and 6 years to go; ruck - weight distribution is all off; gray socks - too course, soaks up water and acts like a rasp on the feet
cbt boots - should be gortex, low instep, soft sole; cbt jacket - 1950s acceptable, now no way; gerber - they break and unfold when not wanting them to, should all be leatherman; lecs jacket - excellent, should be general issue; fleece - should be general issue; req gortex gloves wrist length and with a fleece liner. I have bought my own gloves because the military won't bring out acceptable hand wear. Cbt gloves are useless in wet or cold weather and arctic mitts can't be used easily in an AFV. Try driving and operating your personnel veh with the mitts - doesn't work
see flag 388 for comments
see flag 387 for comments

ANNEX D

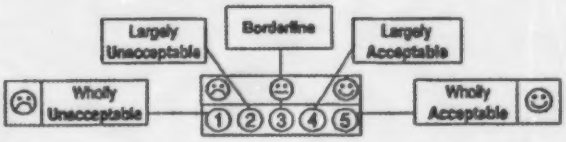
ACCESS RESULTS

DETAILED QUESTIONNAIRES DESCRIPTIVE STATISTICS

WEB-1 **PROTECTED A**

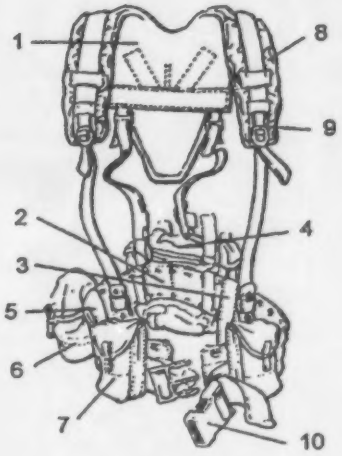
Webbing, 1982 Pattern

I have worn this item:	n	%	
Never	1	1	Do not fill out this item
Occasionally	5	2	Go to Section A and Continue
Frequently	185	83	
Not completed	34	14	



Section A: Specific Features

	Function (works well)			Durability (wears well)		
	x	s.d.	n	x	s.d.	n
1. Yoke Straps	3.49	1.01	220	3.73	1.03	213
2. Utility Belt	3.04	1.11	221	2.98	1.24	212
3. Bayonet Holder	3.71	0.95	222	3.79	0.91	210
4. Small Field Pack	3.35	1.05	221	3.46	1.05	211
5. KFS Carrier	2.42	1.28	222	3.12	1.26	211
6. Canteen Carrier	3.09	1.16	222	3.07	1.16	211
7. Magazine Pouch	2.77	1.18	221	3.09	1.13	213
8. Shoulder Straps	3337	1.06	220	3.51	1.00	213
9. Strap Adjusters	3.20	1.17	220	3.25	1.15	212
10. Belt Connector	2.73	1.27	222	2.78	1.30	212



Section B: Whole Item

Activities	x	s.d.	n	Suitable for:	x	s.d.	n	Compatibility	x	s.d.	n
Reaching	3.46	0.93	220	Cold Weather	2.40	1.21	220	Undershirt	3.59	1.02	219
Throwing	3.35	0.95	220	Cool Weather	3.22	1.02	222	Combat shirt	3.52	1.01	220
Trunk Bending	3.10	1.03	220	Warm Weather	3.32	1.06	222	Combat jacket	2.97	1.11	221
Crouching	3.26	1.04	220	Hot Weather	3.02	1.19	222	Trousers, cbt	3.53	0.99	218
Sitting	3.24	1.13	221	Snow	2.58	1.23	220	Helmet, M1	3.46	1.06	220
Crawling	2.57	1.16	220	Rain	2.98	1.10	222	Parka	2.15	1.19	218
Climbing	2.77	1.11	220	Wind	3.44	0.97	222	NBC garment	2.45	1.14	202
Marching	3.11	1.08	220	Ventilation	2.98	1.26	222	Weapons	3.27	1.03	219
Running	2.44	1.16	221	**Stowage**	**x**	**s.d.**	**n**	Frag Vest	2.02	1.10	217
Digging	2.63	1.10	218	In Vehicles	2.85	1.23	221	Rucksack	1.95	1.12	219
Skiing	2.69	1.09	172	Bulk	2.79	1.21	221				
Field Living	3.16	1.03	219	Weight	3.21	1.05	221				

Webbing, 1982 Pattern

Section B: Whole Item (Continued)

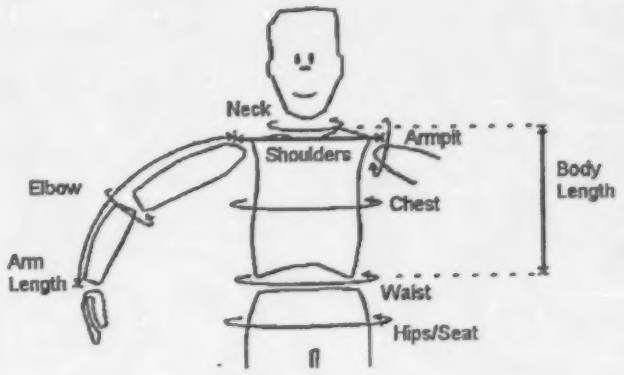
Durability	x	s.d.	n	Adjustment	x	s.d.	n	Other:	x	s.d.	n
Tears	3.22	1.06	219	Put on	3.50	1.02	219	Colour	3.85	0.99	217
Wear	3.25	1.05	219	Adjust fit	3.23	1.14	218	Noise	3.00	1.11	216
Snagging	2.56	1.20	218	Take off	3.50	0.99	219	Smell	3.51	1.03	211
Stitching	2.96	1.15	218					Layering	3.02	1.16	206
Stains	3.12	1.11	217								
Care	**x**	**s.d.**	**n**	**Vehicles**	**x**	**s.d.**	**n**	**Comfort**	**x**	**s.d.**	**n**
Washing	3.27	1.12	217	Entry	2.47	1.16	216	Neck	3.05	1.11	214
Drying	3.33	1.14	217	Exit	2.42	1.18	216	Shoulders	3.00	1.12	214
Repairs	2.91	1.08	213	Operation	2.52	1.20	212	Chest	3.41	0.97	213
Brushing	3.27	0.99	208	Maintenance	2.66	1.25	212	Armpits	3.50	0.99	212
								Waist	2.73	1.17	213

Section C: Fit

Fit Scale:

too small	OK	too big
①	②	③

	x	s.d.	n
Neck	1.95	0.38	217
Shoulders	1.95	0.42	217
Chest	2.00	0.31	216
Waist	2.00	0.54	216
Body Length	2.00	0.44	214



Section D: Overall Ratings

	x	s.d.	n		x	s.d.	n		x	s.d.	n
Appearance	3.26	1.02	211	Function	2.93	1.11	213	Durability	3.16	1.06	213

Section E: Size Issued

Section F: Replacement Items

	Yes		No	
	n	%	n	%
Are you buying replacement items for this piece of kit?	33	14.7	185	82.6

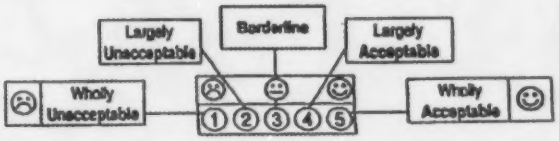
Please provide the name brand or description of the replacement item:

Section G: Comments

WEB-1 **PROTECTED A**

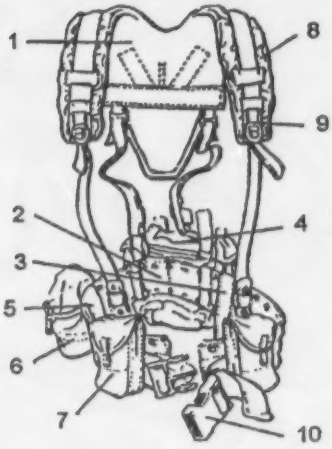
Webbing, 1982 Pattern

I have worn this item:	n	%	
Never	1	1	Do not fill out this item
Occasionally	5	2	Go to Section A and Continue
Frequently	185	83	
Not completed	34	14	



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1. Yoke Straps		
2. Utility Belt		
3. Bayonet Holder		
4. Small Field Pack		
5. KFS Carrier		
6. Canteen Carrier		
7. Magazine Pouch		
8. Shoulder Straps		
9. Strap Adjusters		
10. Belt Connector		



Section B: Whole Item

Activities	% unacceptable 25 50 75	Suitable for:	% unacceptable 25 50 75	Compatibility	% unacceptable 25 50 75
Reaching		Cold Weather		Undershirt	
Throwing		Cool Weather		Combat shirt	
Trunk Bending		Warm Weather		Combat jacket	
Crouching		Hot Weather		Trousers, cbt	
Sitting		Snow		Helmet, M1	
Crawling		Rain		Parka	
Climbing		Wind		NBC garment	
Marching		Ventilation		Weapons	
Running		**Stowage**	% unacceptable 25 50 75	Frag Vest	
Digging		In Vehicles		Rucksack	
Skiing		Bulk			
Field Living		Weight			

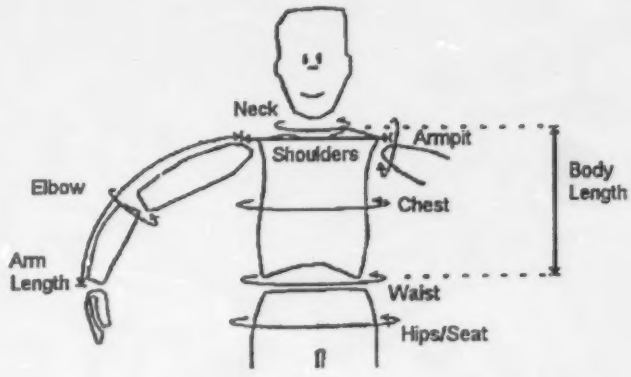
Webbing, 1982 Pattern

Section B: Whole Item (Continued)

Durability	% unacceptable 25 50 75	Adjustment	% unacceptable 25 50 75	Other:	% unacceptable 25 50 75
Tears		Put on		Colour	
Wear		Adjust fit		Noise	
Snagging		Take off		Smell	
Stitching				Layering	
Stains					
Care	**% unacceptable 25 50 75**	**Vehicles**	**% unacceptable 25 50 75**	**Comfort**	**% unacceptable 25 50 75**
Washing		Entry		Neck	
Drying		Exit		Shoulders	
Repairs		Operation		Chest	
Brushing		Maintenance		Armpits	
				Waist	

Section C: Fit

	% not OK 25 50 75
Neck	
Shoulders	
Chest	
Waist	
Body Length	



Section D: Overall Ratings

	% unacceptable 25 50 75		% unacceptable 25 50 75		% unacceptable 25 50 75
Appearance		Function		Durability	

Webbing, 1982 Pattern

Section E: Size Issued

Section F: Replacement Items

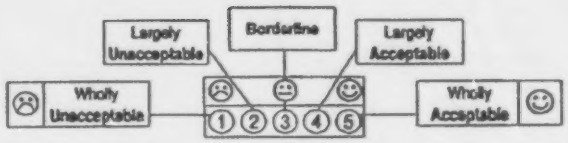
	Yes		No	
Are you buying replacement items for this piece of kit?				

Please provide the name brand or description of the replacement item:

Section G: Comments

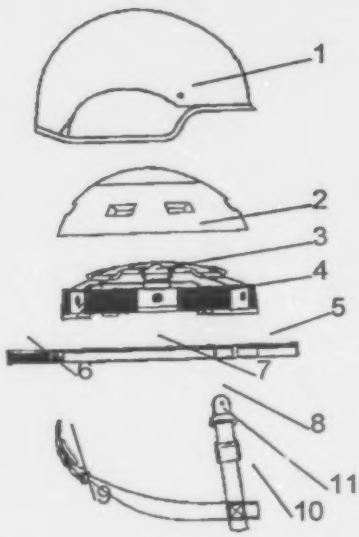
New CF Helmet

I have worn this garment:	n	%	
Never	5	2	Do not fill out this item
Occasionally	37	16	Go to Section A and Continue
Frequently	148	66	
Not completed	34	15	



Section A: Specific Features

	Function (works well)			Durability (wears well)		
	x	s.d.	n	x	s.d.	n
1. Shell	4.06	0.84	215	4.02	0.87	196
2. Trauma Liner	3.97	0.84	215	4.01	0.88	196
3. Crown Tie Cord	3.87	0.95	217	3.92	0.88	196
4. Suspension System	3.89	0.97	216	3.94	0.93	193
5. Headband	3.81	0.99	216	3.89	0.97	195
6. Headband Velcro	3.82	0.92	214	3.96	0.92	193
7. NBC Adjustment Velcro	3.68	0.95	199	3.77	0.94	183
8. Retention System	3.62	1.11	213	3.73	1.04	193
9. Retention Adjustment	3.46	1.21	213	3.71	1.06	193
10. Chin Cup	3.38	1.18	216	3.70	1.08	196
11. Chinstrap Buckle	2.94	1.40	215	3.50	1.21	194



Section B: Whole Item

Activities	x	s.d.	n
Neck Bending	3.51	1.02	213
Rifle Firing	3.18	1.20	216
Driving	3.44	1.02	200
SRAAW Firing	3.31	1.07	180
MG Firing	3.44	1.04	201
Throwing	3.68	0.89	211
Crawling	3.49	1.03	212
Climbing	3.59	1.00	211
Marching	3.66	0.97	214
Running	3.50	1.08	219
Digging	3.39	1.12	208

Suitable for:	x	s.d.	n
Cold Weather	2.92	1.23	205
Cool Weather	3.51	1.04	209
Warm Weather	3.62	0.92	213
Hot Weather	3.13	1.16	209
Snow	3.17	1.21	206
Rain	3.61	0.97	214
Wind	3.63	0.94	214
Ventilation	3.20	1.16	211
Stowage	**x**	**s.d.**	**n**
In Vehicles	3.59	1.00	213
Bulk in Pack	3.20	1.15	209
Weight in Pack	3.29	1.13	208

Durability	x	s.d.	n
Denting	3.97	0.84	209
Wear	3.86	0.87	211
Snagging	3.81	0.91	210
Paint Chipping	3.64	1.03	208
Stains	3.77	0.91	209
Care	**x**	**s.d.**	**n**
Repairs	3.72	0.85	204
Cleaning	3.76	0.91	212

Section B: Whole Item (Continued)

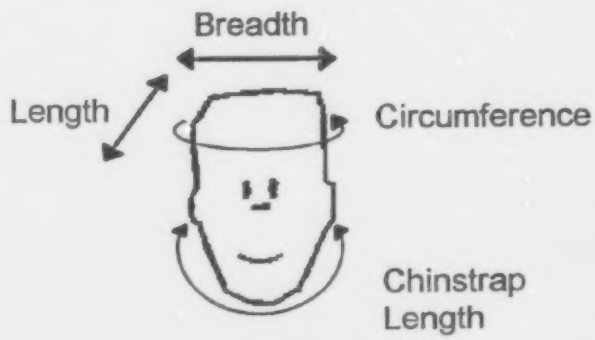
Compatibility	x	s.d.	n	Adjustment	x	s.d.	n	Other:	x	s.d.	n
Frag. Vest	3.14	1.25	207	Put on	3.32	1.10	215	Colour	3.75	1.04	213
Rain Jacket	3.69	0.95	214	Adjust fit	3.20	1.23	215	Noise	3.84	0.90	213
Goggles	3.14	1.10	196	Take off	3.62	1.06	214	Stability	3.78	0.96	213
Face mask	3.11	1.04	183					Ease of Movmnt.	3.55	1.09	213
Toque	2.42	1.20	202								
Balaclava	2.56	1.24	193								
C4 Mask	3.00	1.24	194	**Vehicles**	**x**	**s.d.**	**n**	**Comfort**	**x**	**s.d.**	**n**
Rucksack	3.22	1.06	214	Entry	3.59	1.02	212	Suspension	3.64	1.03	214
Hoods	3.06	1.12	204	Exit	3.58	1.02	211	Headband	3.55	1.06	214
Gloves, Cbt.	3.23	1.22	211	Operation	3.50	1.05	205	Chinstrap	2.93	1.28	215
C9 LMG	3.47	1.09	196	Maintenance	3.51	1.06	206	Weight on Head	3.40	1.07	215
C7 Rifle	3.37	1.14	213								
M72	3.39	1.05	191								
Carl Gustav	3.24	1.14	190								
Binoculars	3.65	0.89	198								
Headsets	2.33	1.16	199								
Handsets	3.00	1.21	202								

Section C: Fit

Fit Scale:

too small	OK	too big
①	②	③

	x	s.d.	n
Head Breadth	1.98	0.24	211
Head Length	2.01	0.18	211
Head Circumference	1.96	0.31	211
Chinstrap Length	1.94	0.35	211
Height above Head	2.08	0.32	211
Clearance from Head	2.03	0.31	211
Coverage of Head	1.98	0.21	211



New CF Helmet

Section D: Overall Ratings

	x	s.d.	n		x	s.d.	n		x	s.d.	n
Appearance	3.81	0.85	212	Function	3.75	0.81	212	Durability	3.87	0.81	212
Protection	3.92	0.74	209	Physical Comfort	3.43	1.03	214	Thermal Comfort	3.03	1.11	209
Activities	3.56	0.93	208								

Section E: Size Issued

Small		Medium		Large	
n	%	n	%	n	%
24	10.6	154	68.1	38	16.8

Section F: Sizing

Was a template (i.e. cardboard cutout) used to determine your helmet size?

Yes		No	
n	%	n	%
155	67.7	62	27.1

Section G: Manual

Was a manual issued to you when you received your helmet?

Yes		No	
n	%	n	%
202	88.2	15	6.6

If "Yes," did you read the manual?

Yes		No	
n	%	n	%
166	72.5	42	18.3

Section H: Shooting Eye

Left		Right		Both	
n	%	n	%	n	%
28	12.4	188	83.2	1	0.4

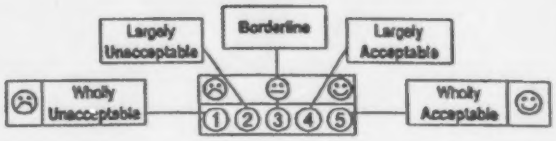
Section I: Comments

New CF Helmet

I have worn this garment:	n	%
Never	5	2
Occasionally	37	17
Frequently	148	66
Not completed	34	15

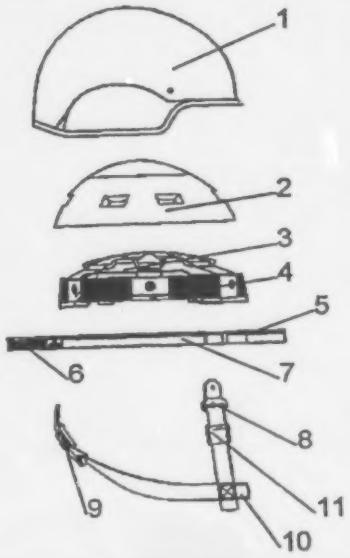
Do not fill out this item

Go to Section A and Continue



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1. Shell		
2. Trauma Liner		
3. Crown Tie Cord		
4. Suspension System		
5. Headband		
6. Headband Velcro		
7. NBC Adjustment Velcro		
8. Retention System		
9. Retention Adjustment		
10. Chin Cup		
11. Chinstrap Buckle		



Section B: Whole Item

Activities	% unacceptable 25 50 75	Suitable for:	% unacceptable 25 50 75	Durability	% unacceptable 25 50 75
Neck Bending		Cold Weather		Denting	
Rifle Firing		Cool Weather		Wear	
Driving		Warm Weather		Snagging	
SRAAW Firing		Hot Weather		Paint Chipping	
MG Firing		Snow		Stains	
Throwing		Rain			
Crawling		Wind		Care	% unacceptable 25 50 75
Climbing		Ventilation		Repairs	
Marching		Stowage	% unacceptable 25 50 75	Cleaning	
Running		In Vehicles			
Digging		Bulk In Pack			
		Weight In Pack			

New CF Helmet

Section B: Whole Item (Continued)

Compatibility	% unacceptable 25 50 75
Frag Vest	
Rain Jacket	
Goggles	
Face Mask	
Toque	
Balaclava	
C4 Mask	
Rucksack	
Hoods	
Gloves, Cbt.	
C9 LMG	
C7 Rifle	
M72	
Carl Gustav	
Binoculars	
Headsets	
Handsets	

Adjustment	% unacceptable 25 50 75
Put on	
Adjust fit	
Take off	

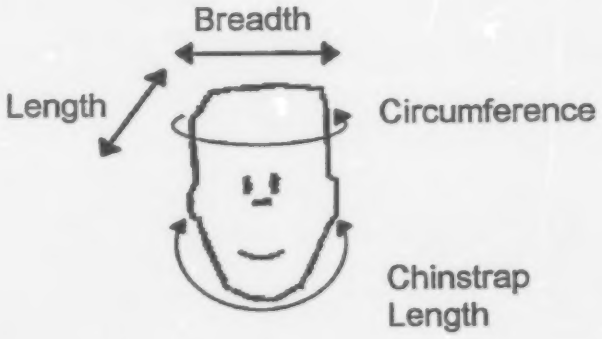
Vehicles	% unacceptable 25 50 75
Entry	
Exit	
Operation	
Maintenance	

Other:	% unacceptable 25 50 75
Colour	
Noise	
Stability	
Ease of Mvmt.	

Comfort	% unacceptable 25 50 75
Suspension	
Headband	
Chinstrap	
Weight on Head	

Section C: Fit

	% not OK 25 50 75
Head Breadth	
Head Length	
Head Circumference	
Chinstrap Length	
Height above Head	
Clearance from Head	
Coverage of Head	



New CF Helmet

Section D: Overall Ratings

	% unacceptable 25 50 75					% unacceptable 25 50 75					% unacceptable 25 50 75				
Appearance					Function					Durability					
Protection					Phys. Comf.					Therm. Comf.					
Activities															

Section E: Size Issued

Small		Medium		Large	

Section F: Sizing

Was a template (i.e. cardboard cutout) used to determine your helmet size?

Yes		No	

Section G: Manual

Was a manual issued to you when you received your helmet?

Yes		No	

If "Yes," did you read the manual?

Yes		No	

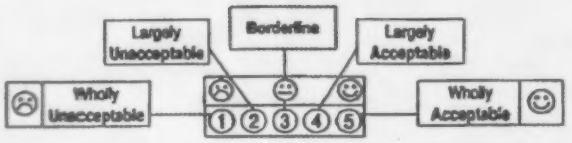
Section H: Shooting Eye

Left		Right		Both	

Section I: Comments

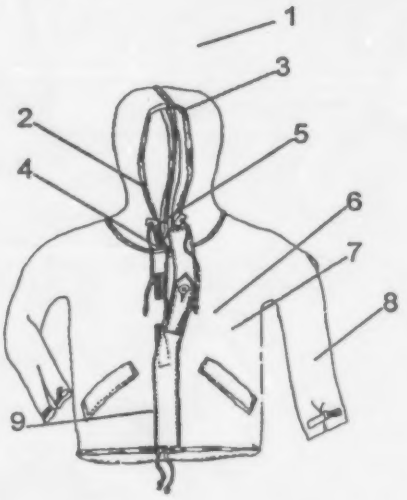
Rain Jacket

I have worn this garment:			
	n	%	
Never	11	5	Do not fill out this item
Occasionally	26	12	Go to Section A and Continue
Frequently	148	66	
Not completed	39	17	



Section A: Specific Features

	Function (works well)			Durability (wears well)		
	x	s.d.	n	x	s.d.	n
1. Hood	3.48	1.17	212	3.49	1.15	203
2. Hood Drawstring	3.47	1.08	211	3.56	1.12	203
3. Hood Velcro Adjustment	3.26	1.24	211	3.39	1.20	204
4. Zipper	3.10	1.25	212	3.00	1.29	202
5. Velcro Front Closures	3.48	1.08	212	3.45	1.17	203
6. Pocket Pass-Through	3.48	1.13	212	3.61	1.09	203
7. Velcro Pocket Closures	3.51	1.11	212	3.48	1.17	203
8. Cuff Adjustment	3.46	1.19	212	3.44	1.24	203
9. Hem Drawstring	3.43	1.15	210	3.49	1.16	202



Section B: Whole Item

Activities	x	s.d.	n	Suitable for:	x	s.d.	n	Compatibility	x	s.d.	n
Neck Bending	3.73	0.98	212	Cold Weather	2.73	1.33	210	Jacket, cbt	3.21	1.21	210
Reaching	3.62	1.01	212	Cool Weather	3.39	1.23	211	Polar Fleece	3.76	1.11	203
Throwing	3.62	1.01	212	Warm Weather	2.77	1.19	210	Trousers, cbt	3.68	1.05	211
Trunk Bending	3.69	0.99	212	Hot Weather	1.93	1.08	210	Rain Pants	3.54	1.21	210
Crouching	3.66	1.04	212	Snow	2.87	1.29	206	Helmet, M1	3.52	1.11	209
Sitting	3.71	1.01	212	Rain	3.52	1.28	212	New CF Helmet	3.57	1.07	209
Crawling	3.52	1.12	211	Wind	3.95	1.02	212	NBC IPE	3.19	1.18	183
Climbing	3.38	1.16	209	Ventilation	2.00	1.13	212	Rucksack	3.18	1.25	211
Marching	3.13	1.29	212	Stowage	x	s.d.	n	C7 Rifle	3.63	1.02	211
Running	2.90	1.32	212	In Vehicles	3.87	0.95	208	SRAAW	3.51	1.02	190
Digging	2.99	1.26	211	Bulk In Pack	3.81	0.99	208	Std. Webbing	3.44	1.08	209
Field Living	3.44	1.16	212	Weight In Pack	3.93	0.92	208	Gloves, Cbt.	3.44	1.07	210
								Headsets	3.45	1.09	209
								Frag. Vest	3.02	1.26	206

Rain Jacket

Durability	x	s.d.	n
Tears	3.20	1.17	213
Wear	3.28	1.11	212
Snagging	3.20	1.11	212
Stitching	3.10	1.20	212
Stains	2.90	1.25	211
Cracking	3.40	1.06	211
Care	**x**	**s.d.**	**n**
Cleaning	3.40	1.18	207
Drying	3.64	1.08	207
Repairs	3.02	1.18	204

Adjustment	x	s.d.	n
Put on	3.67	0.93	212
Adjust fit	3.53	1.02	212
Take off	3.68	0.94	212
Vehicles	**x**	**s.d.**	**n**
Entry	3.69	0.93	206
Exit	3.69	0.93	206
Operation	3.63	0.94	205
Maintenance	3.60	0.99	204

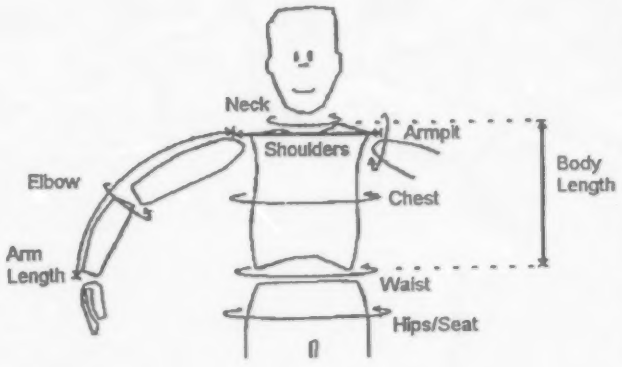
Other:	x	s.d.	n
Colour	3.71	1.01	211
Noise	2.52	1.13	212
Smell	3.12	1.10	209
Layering	3.22	1.13	211
Insect Resistance	3.66	0.98	210
Ease of Mvmt.	3.42	0.99	212
Weight on Body	3.83	0.96	211

Section C: Fit

Fit Scale:

too small	OK	too big
①	②	③

	x	s.d.	n
Neck	2.03	0.29	207
Shoulders	1.99	0.22	207
Chest	2.03	0.24	207
Waist	2.09	0.34	207
Seat	2.02	0.29	204
Body Length	2.13	0.44	206
Armpit	1.97	0.27	207
Elbow	1.98	0.20	207
Wrist	2.02	0.33	207
Arm Length	2.04	0.48	207



Section D: Overall Ratings

	x	s.d.	n
Appearance	3.66	0.92	206
Rain	3.26	1.33	207

	x	s.d.	n
Function	3.35	1.15	206
Physical	3.31	1.10	208

	x	s.d.	n
Durability	3:33	1.06	206
Thermal	2.97	1.20	207

Section E: Size Issued

Short		Regular		Tall		Extra Tall	
n	%	n	%	n	%	n	%
11	4.9	141	63.0	53	23.7	4	1.8

Section F: Replacement Items

	Yes		No	
	n	%	n	%
Are you buying replacement items for this piece of kit?	19	8.5	182	81.3
Please provide the name brand or description of the replacement item:				

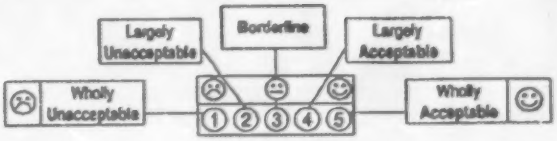
Section G: Comments

Rain Jacket

I have worn this garment:	n	%
Never	11	5
Occasionally	26	12
Frequently	148	66
Not completed	39	17

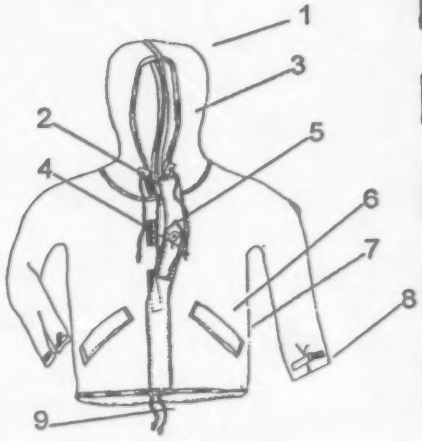
Do not fill out this item

Go to Section A and Continue



Section A: Specific Features

	Function (works well) % unacceptable 25 50 75	Durability (wears well) % unacceptable 25 50 75
1. Hood		
2. Hood Drawstring		
3. Hood Velcro Adjustment		
4. Zipper		
5. Velcro Front Closures		
6. Pocket Pass-Through		
7. Velcro Pocket Closures		
8. Cuff Adjusment		
9. Hem Drawstring		



Section B: Whole Item

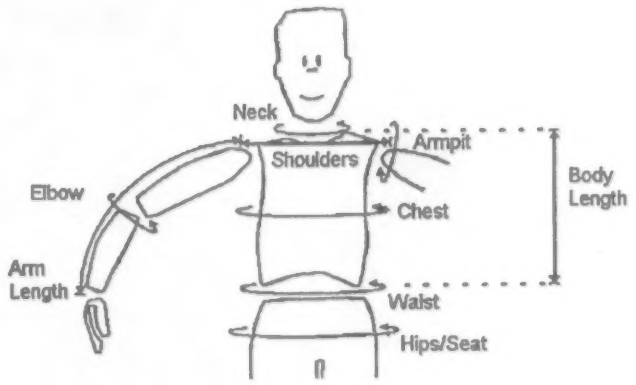
Activities % unacceptable 25 50 75	Suitable for: % unacceptable 25 50 75	Compatibility % unacceptable 25 50 75
Neck Bending	Cold Weather	Jacket, Cbt
Reaching	Cool Weather	Polar Fleece
Throwing	Warm Weather	Trousers, Cbt
Trunk Bending	Hot Weather	Rain Pants
Crouching	Snow	Helmet, M1
Sitting	Rain	New CF Helmet
Crawling	Wind	NBC IPE
Climbing	Ventilation	Rucksack
Marching	**Stowage** % unacceptable 25 50 75	C7 Rifle
Running	In Vehicles	SRAAW
Digging	Bulk In Pack	Std. Webbing
Field Living	Weight In Pack	Gloves, Cbt
		Headsets
		Frag. Vest

Section B: Whole Item (Continued)

Durability	% unacceptable 25 50 75	Adjustment	% unacceptable 25 50 75	Other:	% unacceptable 25 50 75
Tears		Put on		Colour	
Wear		Adjust fit		Noise	
Snagging		Take off		Smell	
Stitching				Layering	
Stains				Insect Resistance	
Cracking				Ease of Mvmt.	
Care	**% unacceptable 25 50 75**	**Vehicles**	**% unacceptable 25 50 75**	Weight on Body	
Cleaning		Entry			
Drying		Exit			
Repairs		Operation			
		Maintenance			

Section C: Fit

	% not OK 25 50 75
Neck	
Shoulders	
Chest	
Waist	
Seat	
Body Length	
Armpit	
Elbow	
Wrist	
Arm Length	



Section D: Overall Ratings

	% unacceptable 25 50 75		% unacceptable 25 50 75		% unacceptable 25 50 75
Appearance		Function		Durability	
Rain Protection		Physical Comf.		Thermal Comf.	

Section E: Size Issued

Short	Regular	Tall	Extra Tall
○	○	○	○

Section F: Replacement Items

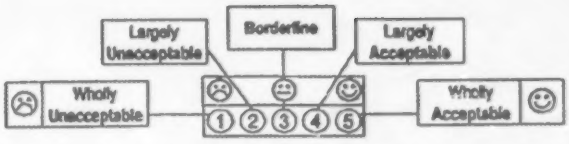
	Yes	No
Are you buying replacement items for this piece of kit?	○	○

Please provide the name brand or description of the replacement item:

Section G: Comments

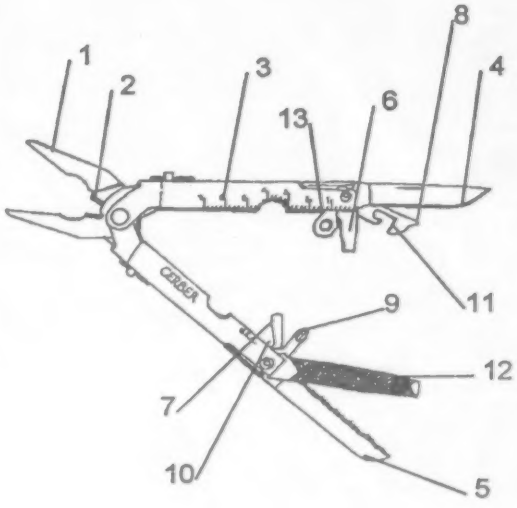
Multi Tool

I have worn this garment:	n	%	
Never	19	9	Do not fill out this item
Occasionally	29	13	Go to Section A and Continue
Frequently	119	53	
Not completed	57	25	



Section A: Specific Features

	Function (works well)			Durability (wears well)		
	x	s.d.	n	x	s.d.	n
1. Pliers	3.33	1.28	202	3.00	1.37	190
2. Wire Cutters	2.93	1.33	201	2.67	1.35	189
3. Ruler	3.10	1.22	196	3.57	1.14	184
4. Straight Blade	3.26	1.22	202	2.96	1.28	190
5. Fully Serrated Blade	3.77	1.16	200	3.41	1.20	189
6. Large Screwdriver	3.58	1.11	201	3.44	1.12	187
7. Medium Screwdriver	3.55	1.06	201	3.42	1.12	188
8. Small Screwdriver	3.60	2.35	201	3.40	1.12	187
9. Phillips Screwdriver	3.55	1.08	202	3.44	1.15	189
10. Bottle Opener	3.38	1.13	197	3.43	1.15	183
11. Can Opener	3.39	1.15	198	3.40	1.21	186
12. File	3.40	1.12	200	3.36	1.14	188
13. Lanyard Eyelet	3.38	1.21	193	3.55	1.14	181
14. Sheath (Case)	3.81	1.07	202	3.60	1.17	190



Section B: Whole Item

Stowage	x	s.d.	n	Suitable for:	x	s.d.	n	Compatibility	x	s.d.	n
On Belt	3.89	0.96	200	Cold Weather	3.45	1.21	198	Std. Webbing	3.23	1.23	199
In Webbing	3.21	1.14	192	Cool Weather	3.77	1.00	199	Gloves, Inner	3.24	1.13	199
In Cbt. Trousers	3.18	1.14	194	Warm Weather	3.94	0.97	199	Gloves, Outer	2.87	1.16	198
In Cbt. Jacket	3.21	1.13	189	Hot Weather	3.90	0.99	198	NBC Gloves	2.42	1.12	183
On Lanyard	3.29	1.15	182	Snow	3.59	1.11	198	Arctic Mitts	1.97	1.17	189
On Suspenders	3.10	1.17	187	Rain	3.76	1.00	198	**Care**	**x**	**s.d.**	**n**
Weight to Carry	3.93	1.03	200	Wind	3.89	0.96	197	Cleaning	3.47	1.04	199
Bulk	3.81	1.03	196					Repairs	2.62	1.32	193

Section B: Whole Item (Continued)

Durability	x	s.d.	n	Adjustment	x	s.d.	n	Other:	x	s.d.	n
Dents	3.52	1.06	196	Put into Sheath	3.88	0.87	200	Colour	3.59	1.06	198
Wear	3.10	1.24	195	Remove from Sheath	389	0.87	201	Physical Comfort	3.63	1.06	198
Rusting	3.22	1.19	197	Extend Pliers	3.62	1.10	200	Noise	3.70	0.97	195
Scratching	3.38	1.14	195	Retract Pliers	3.54	1.09	199	Ease of Use	3.58	1.02	198
Bending	2.86	1.28	198	Open Tools	3.19	1.09	200	Weight	3.88	0.89	199
Breakage	2.51	1.35	200	Close Tools	3.37	1.09	200	Size	3.87	0.93	200

Section C: Overall Ratings

	x	s.d.	n		x	s.d.	n		x	s.d.	n
Appearance	3.83	0.91	197	Function	3.47	1.17	200	Durability	2.93	1.26	198
Safety	3.12	1.29	197								

Section D: Damaged Parts

	YES		NO	
	n	%	n	%
Have any of the multi tool parts been damaged?	115	51.4	84	37.5

If "YES," what parts were damaged and what caused the damage? :

Section E: Replacement Items

	YES		NO	
	n	%	n	%
Are you buying replacement items for this piece of kit?	63	28.0	135	60.0

If "YES," Please provide the name brand or description of the replacement item:

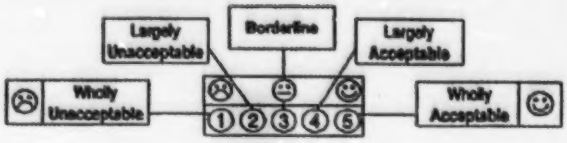
Section F: Comments

Multi Tool

I have worn this garment	n	%
Never	19	9
Occasionally	29	13
Frequently	119	53
Not completed	57	25

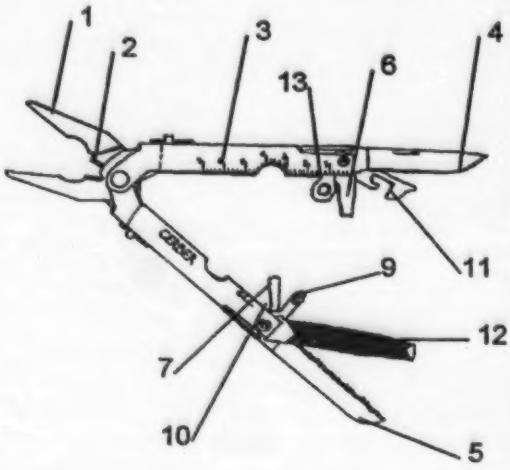
Do not fill out this item

Go to Section A and Continue



Section A: Specific Features

	Function (works well) % unacceptable	Durability (wears well) % unacceptable
1. Pliers		
2. Wire Cutters		
3. Ruler		
4. Straight Blade		
5. Fully Serrated Blade		
6. Large Screwdriver		
7. Medium Screwdriver		
8. Small Screwdriver		
9. Phillps Screwdriver		
10. Bottle Opener		
11. Can Opener		
12. File		
13. Lanyard Eyelet		
14. Sheath (Case)		



Section B: Whole Item

Stowage	% unacceptable	Suitable for:	% unacceptable	Compatibility	% unacceptable
On Belt		Cold Weather		Std. Webbing	
In Webbing		Cool Weather		Gloves, Inner	
In Cbt. Trousers		Warm Weather		Gloves, Outer	
In Cbt. Jacket		Hot Weather		NBC Gloves	
On Lanyard		Snow		Arctic Mitts	
On Suspenders		Rain		**Care**	% unacceptable
Weight to Carry		Wind		Cleaning	
Bulk				Repairs	

Section B: Whole Item (Continued)

Durability		Adjustment		Other:	
Dents		Put into Sheath		Colour	
Wear		Remove from Sheath		Physical Comfort	
Rusting		Extend Pliers		Noise	
Scratching		Retract Pliers		Ease of use	
Bending		Open Tools		Weight	
Breakage		Close Tools		Size	

Section C: Overall Ratings

Appearance		Function		Durability	
Safety					

Section D: Damaged Parts

	YES	NO
Have any of the multi tool parts been damaged?		

If "YES," what parts were damaged and what caused the damage? :

Section E: Replacement Items

	YES	NO
Are you buying replacement items for this piece of kit?		

If "YES," Please provide the name brand or description of the replacement item:

Section F: Comments

C 4 C R 1

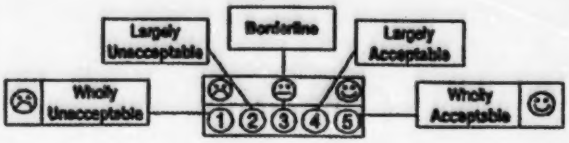
PROTECTED A (when completed)

NBC C4 MaskCarrier

I have worn this garment:	n	%
Never	29	13
Occasionally	13	6
Frequently	144	64
Not completed	38	17

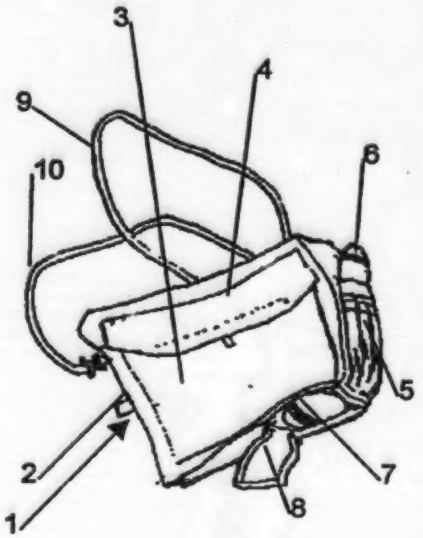
Do not fill out this page

Go to Section A and Continue



Section A: Specific Features

	Function (works well)			Durability (wears well)		
	x	s.d.	n	x	s.d.	n
1. Front Opening	3.33	1.20	193	3.32	1.15	182
2. Hook & Loop Closure	3.13	1.20	190	3.29	1.16	181
3. Exterior Pocket	3.59	0.97	191	3.57	1.01	182
4. Exterior Pocket Flap	3.62	0.97	193	3.56	1.01	183
5. Rear Pocket	3.57	1.00	193	3.60	0.98	183
6. Rear Pocket Flap	3.61	0.98	193	3.63	0.97	183
7. Bottom Pocket	3.50	1.00	189	3.57	0.98	180
8. Bottom Pocket Flap	3.51	1.00	189	3.56	1.00	180
9. Shoulder Strap	3.05	1.21	193	3.32	1.18	181
10. Belt	3.10	1.20	192	3.30	1.19	183
11. Webbing Belt Attachment	3.29	1.18	188	3.14	1.23	180



Section B: Whole Item

Activities	x	s.d.	n
Neck Bending	3.63	0.93	189
Reaching	3.64	0.95	190
Throwing	3.57	1.02	188
Trunk Bending	3.51	0.99	189
Crouching	3.42	1.00	190
Sitting	3.37	1.06	189
Crawling	2.65	1.28	190
Climbing	3.00	1.18	191
Marching	3.10	1.10	191
Running	2.63	1.13	191
Masking Drill	3.51	0.97	192
Unmasking Drill	3.41	0.99	192

Suitable for:	x	s.d.	n
Cold Weather	2.92	1.26	191
Cool Weather	3.31	1.01	191
Warm Weather	3.50	0.97	191
Hot Weather	3.33	1.11	191
Snow	3.02	1.18	191
Rain	3.23	1.09	191
Wind	3.52	0.94	189
Stowage	**x**	**s.d.**	**n**
In Vehicles	3.33	1.03	191
Bulk in Pack	3.12	1.16	190
Weight in Pack	3.44	0.97	191

Durability	x	s.d.	n
Tears	3.30	1.08	192
Wear	3.21	1.12	192
Snagging	2.96	1.22	192
Stitching	3.05	1.23	192
Stains	3.28	1.04	192
Care	**x**	**s.d.**	**n**
Cleaning	3.19	1.10	192
Repairs	3.13	1.13	192
Decontamination	3.26	1.01	187

Section B: Whole Item (Continued)

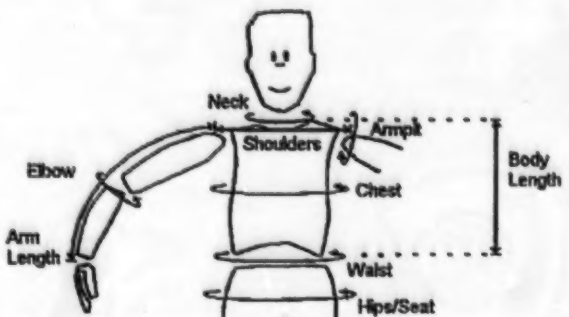
Compatibility	x	s.d.	n	Adjustment	x	s.d.	n	Other:	x	s.d.	n
Jacket, Cbt.	3.42	0.98	187	Put on	3.44	0.98	187	Colour	3.70	0.90	186
Rain jacket	3.46	0.99	187	Adjust fit	3.36	1.07	187	Noise	3.36	1.06	186
Shirt, Cbt.	3.60	0.91	187	Take off	3.49	0.96	187	Smell	3.54	1.00	186
Trousers, Cbt	3.60	0.93	186	Vehicles	x	s.d.	n	Layering	3.39	1.06	181
Helmet, M1	3.44	1.03	184	Entry	3.04	1.13	187	Stability	3.02	1.23	185
New CF Helmet	3.54	0.97	185	Exit	3.02	1.13	187	Ease of Mvmnt.	2.93	1.20	185
C7 Rifle	3.52	0.99	186	Operation	3.18	1.04	186	Comfort	x	s.d.	n
Std. Webbing	3.35	1.06	187	Maintenance	3.21	1.05	186	Shoulders	3.02	1.19	186
Frag Vest	2.97	1.19	186	Accessibility	x	s.d.	n	Chest	3.40	1.02	185
Gloves, Cbt.	3.35	1.06	185	To C4 Mask	3.58	0.88	186	Waist	3.15	1.14	187
Gloves, NBC	3.26	1.06	183	To Canister	3.30	0.98	185	Hip	2.89	1.16	186
NBC Coveralls	3.35	1.00	183	To HI6	3.35	0.98	150	Weight on Body	3.50	0.98	186
C4 Mask	3.49	0.98	185	To Anticonvulsant	3.32	0.98	158				
NBC Hood	3.42	1.01	181	To Exterior Pocket	3.51	0.96	179				
HI6	3.33	1.02	144								
Anticonvulsant	3.36	1.01	152								
Canister	3.43	0.98	182								

Section C: Fit

Fit Scale:

too small	OK	too big
①	②	③

	x	s.d.	n
Shoulders	1.91	0.33	182
Chest	1.97	0.21	181
Waist	1.95	0.36	181
Body Length	2.02	0.38	181
Hips/Seat	1.98	0.43	179



Section D: Overall Ratings

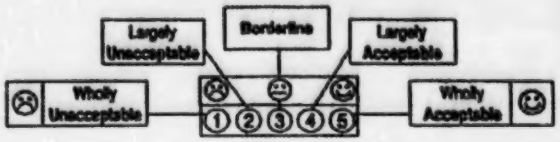
	x	s.d.	n		x	s.d.	n		x	s.d.	n
Appearance	3.59	0.90	184	Function	3.38	0.97	186	Durability	3.25	1.09	185
Physical Comfort	2.77	1.10	185								

Section E: Comments

NBC C4 MaskCarrier

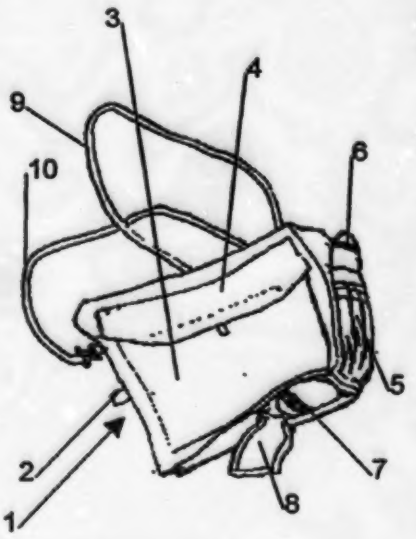
I have worn this garment:	n	%
Never	29	13
Occasionally	13	6
Frequently	144	64
Not completed	38	17

Do not fill out this page
Go to Section A and Continue



Section A: Specific Features

	Function (works well) % unacceptable	Durability (wears well) % unacceptable
1. Front Opening		
2. Hook & Loop Closure		
3. Exterior Pocket		
4. Exterior Pocket Flap		
5. Rear Pocket		
6. Rear Pocket Flap		
7. Bottom Pocket		
8. Bottom Pocket Flap		
9. Shoulder Strap		
10. Belt		
11. Webbing Belt Attachment		



Section B: Whole Item

Activities	% unacceptable	Suitable for:	% unacceptable	Durability	% unacceptable
Neck Bending		Cold Weather		Tears	
Reaching		Cool Weather		Wear	
Throwing		Warm Weather		Snagging	
Trunk Bending		Hot Weather		Stitching	
Crouching		Snow		Stains	
Sitting		Rain			
Crawling		Wind		Care	% unacceptable
Climbing		Stowage	% unacceptable	Cleaning	
Marching		In Vehicles		Repairs	
Running		Bulk in Pack		Decontamination	
Masking Drill		Weight in Pack			
Unmasking Drill					

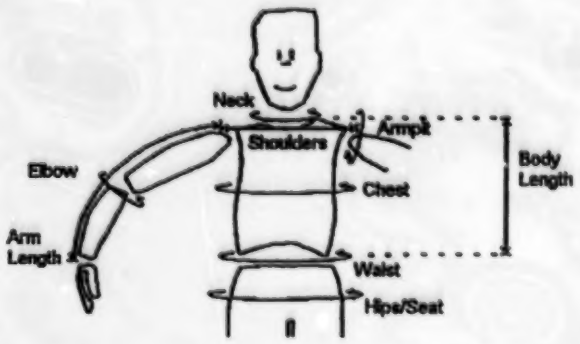
NBC C4 MaskCarrier

Section B: Whole Item (Continued)

Compatibility	% incompatible 25 50 75	Adjustment	% unacceptable 25 50 75	Other:	% unacceptable 25 50 75
Jacket, Cbt		Put on		Colour	
Rain Jacket		Adjust fit		Noise	
Shirt, Cbt		Take off		Smell	
Trousers, Cbt		Vehicles	% unacceptable 25 50 75	Layering	
Helmet, M1		Entry		Stability	
New CF Helmet		Exit		Ease of Mvmt.	
C7 Rifle		Operation		Comfort	% unacceptable 25 50 75
Std. Webbing		Maintenance		Shoulders	
Frag Vest		Accessibility	% unacceptable 25 50 75	Chest	
Gloves, Cbt		To C4 Mask		Waist	
Gloves, NBC		To Canister		Hip	
NBC Coveralls		To HI6		Weight on Body	
C4 Mask		To Anticonvulsant			
NBC Hood		To Exterior Pocket			
HI6					
Anticonvulsant					
Canister					

Section C: Fit

	% not fit 25 50 75
Shoulders	
Chest	
Waist	
Body Length	
Hips/Seat	



Section D: Overall Ratings

Appearance					Function					Durability				
Physical Comfort											

Section E: Comments